

INTERSECTION IMPROVEMENTS 2ND STREET / CANDELARIA ROAD

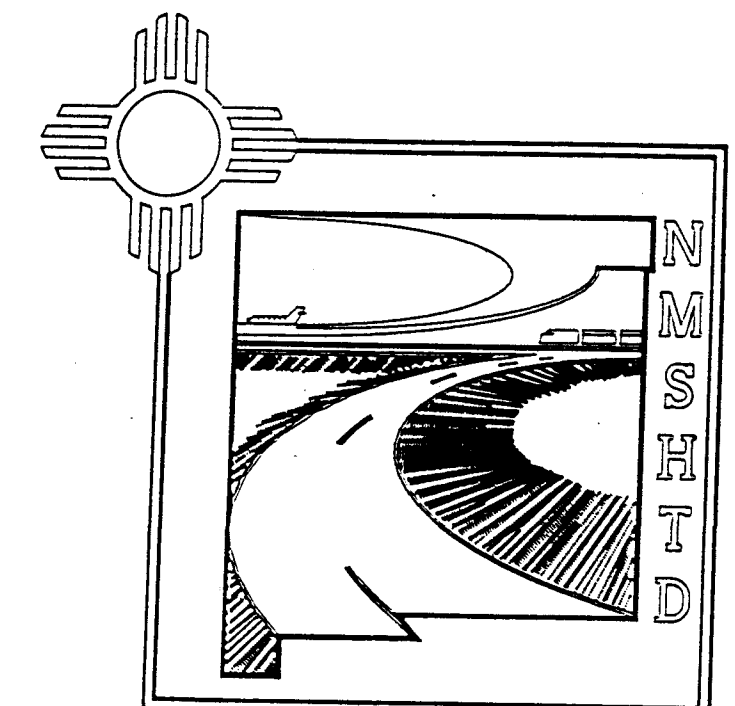
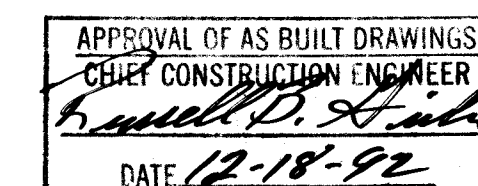
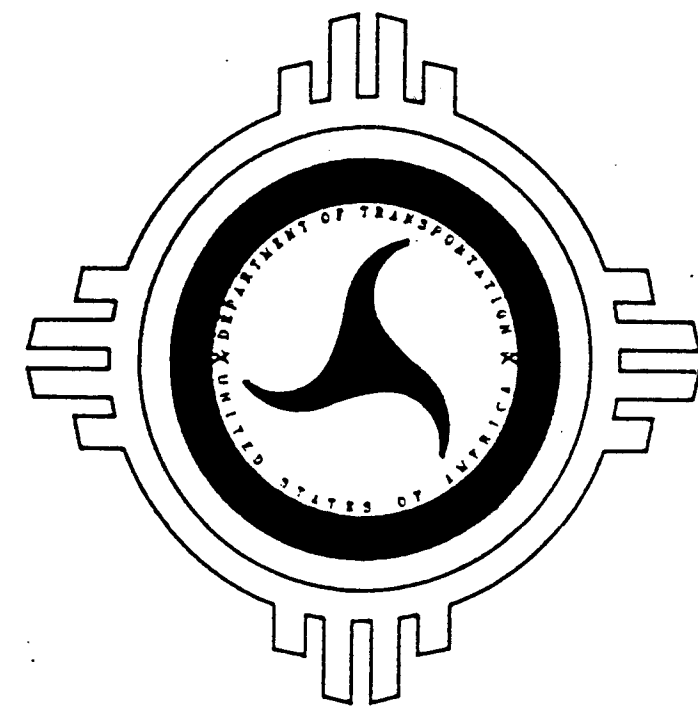
FEDERAL AID URBAN PROJECT
NO. M-4035 (3)

CITY OF ALBUQUERQUE PROJECT
NO. 3203.90

Approved *Frank Keller* Date 7/17/90
for DIVISION ADMINISTRATOR

Approved *Russell B. Smith* Date 9-6-90
CITY ENGINEER

Approved *R. A. Rogers* Date 9/13/90
DESIGN DIVISION DIRECTOR
P.E. 5680



TERMINI
INTERSECTION, SECOND STREET
AND CANDELARIA ROAD.
ALBUQUERQUE, NEW MEXICO

26 3203.900192

CITY OF ALBUQUERQUE N.M.
PUBLIC WORKS DEPT.
ENGINEERING GROUP/TRANSPORTATION

SET No. _____
JOB No. 86111

CO-1	COH-1	COH-4	Rev.	SHEETS	For	CITY ENGR.	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
Richard L. Smith 9/15/90										SCANLON & ASSOCIATES INC. CONSULTING ENGINEERS		APPROVED FOR CONSTRUCTION C.E. SHEET 1-1	

RECORD DRAWING 12/10/99

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		1-3	

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: INDEX OF SHEETS					
SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Randy [Signature]</i>	9-6-90	WATER	<i>R.W. Kane</i>	9-6-90
TRANSPORTATION	<i>SA [Signature]</i>	9-6-90	WASTE WATER	<i>R.W. Kane</i>	9-6-90
HYDROLOGY					
PROJECT NO. M-4035(3)		MAP NO. G-14		SHEET 1-3 OF	
COA PROJ. No. 3203					

12/10/92

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RECORD DRAWING

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Date: 9/5/1990
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SUMMARY OF QUANTITIES

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		1-4.1	

			M-4035 (3)												NON-PARTICIPATING									
			ROADWAY		CONST. SIGNING		SIGNALIZATION		LIGHTING		STORM DRAIN		WATER AND SAS LINE		AG LIGHTING		PERMANENT SIGNING		PROJECT TOTAL					
ITEM NO.	ITEM	UNIT	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL		
202001	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS		1																1				
202010	REMOVAL OF SURFACING	SY	11.376																	11.376				
203001	UNCLASSIFIED EXCAVATION	CY	4.000																	4.000				
203005	SUBGRADE EXCAVATION AND REPLACEMENT	CY	500																	500				
203010	BORROW	CY	500																	500				
207001	SUBGRADE PREPARATION	SY	16.949																	16.949				
304018	BASE COURSE - 8"	SY	7.108																	7.108				
310051	ASPHALT TREATED, OPEN GRADED BASE COURSE - 4"	SY	8.448																	8.448				
401216	PLANT MIX BITUM. MATERIAL TYPE 1, GRADE B - 2"	SY	2.785																	2.785				
401217	PLANT MIX BITUM. MATERIAL TYPE 1, GRADE B - 2 1/2"	SY	7.108																	7.108				
401121X	PLANT MIX BITUM. MATERIAL TYPE 1, GRADE B - 3"	SY	14.216																	14.216				
404002	OPEN GRADED FRICTION COURSE	SY	8.007																	8.007				
407XXX	TACK COAT	SY	15.608																	15.608				
408XXX	PRIME COAT	SY	8.007																	8.007				
451014	CONCRETE PAVEMENT - 9"	SY	8.448																	8.448				
501312	18" REINFORCED CONCRETE PIPE - CLASS IV	LF										289								289				
501326	24" REINFORCED CONCRETE PIPE - CLASS IV	LF										16								16				
501497	EXTEND 12'-10" X 8'-4" C.M.P.A.	LF	24																	24				
509050	STRUCTURAL CONCRETE - CLASS A	CY					12.42			9.31		44.50								66.23				
510049	PIPE HAND RAILING	LF										130.4								130.4				
603015	GROUTED RIPRAP, CLASS A	CY										175								175				
604055	GEOTEXTILE SEPARATOR FABRIC	SY	7.108																	7.108				
604056	GEOTEXTILE SEPARATOR FABRIC - TYPE A	SY	8.448																	8.448				
605004	4" PERFORATED PIPE UNDERDRAIN	LF	815																	815				
606016	STATIONARY GUARD POST	EA	4																	4				
608004	CONCRETE SIDEWALK - 4"	SY	570																	570				
608026	DRIVEPAD - 6"	SY	280																	280				
608136	CONC. MEDIAN PAVEMENT-4" (COLORED AND PATTERNED)	SY	408.54																	408.54				
609059	CONCRETE BARRIER CURB, CITY STD 8"x 2'-7-1/2"	LF	1,773																	1,773				
609060	CONCRETE MEDIAN CURB & GUTTER, CITY STD 6"x 18"	LF	214																	214				
609091	EXTRUDED CONCRETE CURB - 8"	LF	537																	537				
609092	EXTRUDED CONCRETE CURB - 6"	LF	2,736																	2,736				
621001	MOBILIZATION	LS		1																1				
623270	DROP INLET - SINGLE A	EA										1								1				
623272	DROP INLET - SINGLE C	EA										6								6				
623273	DROP INLET - DOUBLE C	EA										7								7				
623432	CONNECT TO EXISTING RCP S.D. LINE	EA										3								3				
660001	TRENCH & BACKFILL 0 - 6' DEPTH	LF										305								305				
663006	PIPE DRESSER COUPLING - 6"	EA											4							4				
663010	PIPE DRESSER COUPLING - 10"	EA											2							2				
663013	PIPE DRESSER COUPLING - 16"	EA											4							4				
663102	REMOVE AND RESET EXISTING FIRE HYDRANT	EA											4							4				
663306	NON PRESSURE WET CONNECTION - 6"	EA											3							3				
663310	NON PRESSURE WET CONNECTION - 10"	EA											1							1				
663316	NON PRESSURE WET CONNECTION - 16"	EA											2							2				
663415	GATE VALVE - 6" WITH TYPE 'A' BOX	EA											6							6				
663418	GATE VALVE - 10" WITH TYPE 'A' BOX	EA											2							2				
663426	BUTTERFLY VALVE - 16" WITH TYPE 'A' BOX	EA											4							4				
663493	WATERLINE PIPE REMOVAL	LF											1,510							1,510				
663505	DUCTILE IRON PIPE - 10"	LF											304							304				
663508	DUCTILE IRON PIPE - 16"	LF											1,005							1,005				
663549	D.I. FITTINGS INCL. THRUST BLK. & RESTR. JTS.	LB											9,380							9,380				
663610	PVC PIPE - 6"	LF											245							245				
663801	WATER SERVICE LATERAL - 3/4"-1"	EA											10							10				
663804	WATER SERVICE LATERAL - 2"	EA											1							1				
664175	ADJUST VALVE BOX TO GRADE	EA	19																	19				
664180	ADJUST MANHOLE TO GRADE	EA	10																	10				
701010	PLYWOOD OR ALUMINUM PANEL SIGN	SF																95		95				
701101	STEEL POSTS & BASE POSTS FOR PANEL SIGNS	LF															156			156				
702000	CONSTRUCTION SIGNING	SF			1,125															1,125				
702103	STEEL POSTS AND BASE POSTS FOR CONSTR. SIGNING	LF			350															350				
702145	PORTABLE SIGN SUPPORT	EA			39															39				
702215	BARRICADE, TYPE III - 8"	EA			23															23				

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	FIELD NOTES	NO.	BY	REMARKS
WORK	DATE	NO.	BY	DATE	NO.	BY	DESIGN
STAMPED BY	DATE	NO.	BY	DATE	NO.	BY	DESIGN
ACCEPTANCE BY	DATE	NO.	BY	DATE	NO.	BY	DESIGN
FIELD	DATE	NO.	BY	DATE	NO.	BY	DESIGN
DRAWINGS	DATE	NO.	BY	DATE	NO.	BY	DESIGN
CHECKED BY	DATE	NO.	BY	DATE	NO.	BY	DESIGN
RECORDED BY	DATE	NO.	BY	DATE	NO.	BY	DESIGN
NO.	DATE	NO.	BY	DATE	NO.	BY	DESIGN

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ADDENDUM NO. 1 2/1/91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SUMMARY OF QUANTITIES SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO.	M-4035 (3) COA PROJ NO. 3203	MAP NO.	G-14	SHEET	1-4.1 OF



SUMMARY OF QUANTITIES

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		1-5	

			M-4035 (3)																			
			ROADWAY		CONST. SIGNING		SIGNALIZATION		LIGHTING		STORM DRAIN		NON-PARTICIPATING WATER AND SAS LINE		AG LIGHTING		PERMANENT SIGNING		PROJECT TOTAL			
ITEM NO.	ITEM	UNIT	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
702350	CHANNELIZATION DEVICE (BRL) TYPE B	EA			200															200		
702400	SEQUENTIAL ARROW DISPLAY	EA			2															2		
702456	TEMPORARY TRAFFIC SIGNAL FOR CONSTR.	EA			1															1		
703120	TUBULAR TRAFFIC MARKERS	EA			16															16		
704010	REFLECTORIZED PAINTED MARKING	LF															13,000		13,000			
704015	ADHESIVE MARKING TAPE FOR CONSTR. ZONES	LF			29,000														29,000			
706010	SERVICE POLE (SIGNAL)	EA					1												1			
707010	TYPE I STANDARD - 10'	EA					4												4			
707015	TYPE I STANDARD - 15'	EA					4												4			
707035	TYPE II STANDARD - 25' ARM	EA					1												1			
707040	TYPE II STANDARD - 30' ARM	EA					3												3			
709015	RIGID ELECTRICAL CONDUIT - 1"	LF					63												63			
709025	RIGID ELECTRICAL CONDUIT - 1-1/2"	LF							100										100			
709030	RIGID ELECTRICAL CONDUIT - 2"	LF					1,013		1,120										2,133			
709040	RIGID ELECTRICAL CONDUIT - 3"	LF					688												688			
710010	ELECTRICAL PULL BOX (STD)	EA					4		2										6			
710011	ELECTRICAL PULL BOX (LARGE)	EA					10												10			
711110	MULTI CONDUCTOR CABLE 5	LF					969												969			
711112	MULTI CONDUCTOR CABLE 7	LF					496												496			
711125	MULTI CONDUCTOR CABLE 20	LF					1,008												1,008			
711224	SINGLE CONDUCTOR 10	LF					504												504			
711228	SINGLE CONDUCTOR 6	LF					198												198			
712020	3 SECTION TRAFFIC SIGNAL ASSEMBLY	EA					6												6			
712030	5 SECTION TRAFFIC SIGNAL ASSEMBLY	EA					12												12			
712070	PEDESTRIAN SIGNAL (NEON)	EA					8												8			
712103	3 SECTION BACKPLATE	EA					4												4			
713010	LOOP VEHICLE DETECTOR	EA					9												9			
713030	PUSH BUTTON STATION	EA					8												8			
713040	LOOP DETECTOR WIRE	LF					2,804												2,804			
713050	LOOP LEAD IN CABLE	LF					2,372												2,372			
713060	DETECTOR SAW CUT	LF					1,050												1,050			
714072	MULTI PHASE ACTUATED CONTROLLER DOUBLE RING	EA					1												1			
718002	REFLECTIVE PLASTIC PAVEMENT STRIPE 8" - 60 MIL	LF															1,030		1,030			
718004	REFLECTIVE PLASTIC PAVEMENT STRIPE 12" - 60 MIL	LF															220		220			
718010	REFLECTORIZED COMBINATION ARROW (THRU AND RIGHT)	EA															4		4			
718015	REFLECTORIZED RIGHT ARROW	EA															4		4			
718020	REFLECTORIZED LEFT ARROW	EA															10		10			
718021	REFLECTORIZED THRU ARROW	EA															14		14			
718025	REFLECTORIZED WORD (ONLY)	EA															6		6			
721001	REMOVAL OF PAVEMENT STRIPE	LF			10,000														10,000			
* 501XXX	DIVERSION OF WATER	LS									1								1			

* OUT OF NUMERICAL SEQUENCE

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	REVISIONS	
WORK STATED BY	DATE	NO.	DATE	NO.	DATE	DESIGN	
FIELD ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	DESIGN	
FIELD CORRECTION BY	DATE	NO.	DATE	NO.	DATE	DESIGN	
CHANGES CORRECTED BY	DATE	NO.	DATE	NO.	DATE	DESIGN	
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION		MICRO-FILM INFORMATION	
RECORDED BY		RECORDED BY		RECORDED BY		RECORDED BY	
NO.		NO.		NO.		NO.	

Robert L. Kane
9/15/90

26 3203.900592

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SUMMARY OF QUANTITIES SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	<i>R. W. Kane</i>	9-6-90	WATER	<i>R. W. Kane</i>	9-6-90
TRANSPORTATION	<i>R. W. Kane</i>	9-6-90	WASTE WATER	<i>R. W. Kane</i>	9-6-90
HYDROLOGY	N A				
PROJECT NO.	M-4035 (3) COA PROJ NO. 3203	MAP NO.	G-14	SHEET	1-5 OF

12/10/92

RECORD DRAWING

GENERAL NOTES:

1. This project shall be constructed in accordance with the NEW MEXICO STATE HIGHWAY DEPARTMENT Standard Specifications for Road and Bridge Construction, Edition of 1984, except as modified herein. All utility construction, storm drain, curb and gutter, sidewalk and drive pad construction shall be performed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction, 1986 edition, except as modified herein. In case of discrepancies or conflicts between the two Specifications, the more stringent shall govern. General conditions of the City of Albuquerque Standard Specification will be used for administration of the contract.
2. All data shown herein concerning existing utilities has been obtained from the owners of the utilities, from records of the City of Albuquerque, and from field observations. These may or may not be accurate. The Contractor is cautioned that he is responsible for determining the exact locations and for protection of all lines during construction. Utility relocations required by the construction of this project are to be coordinated by the Contractor. No additional compensation will be allowed for delays or inconvenience caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work. Any damage to lines, valves, meters, etc., will be repaired or replaced by the Contractor at his expense.
3. Quantities shown herein for the various bid items are for the Contractor's information only. Payment shall be based on actual quantities as constructed.
4. Access to local businesses and residences shall be provided at all times. Access closures must be scheduled at least twenty-four (24) hours in advance with property owners and approved by the Project MANAGER. Access for fire protection and emergency services must be open at all times. Schedules for the release of work will be determined at the pre-construction conference. Additional or supplemental schedules may be required as the project progresses, as requested by the Project Manager.
5. It is the contractors responsibility to know and comply with the "Occupational Safety and Health Act of 1970", as amended.
6. The Air Pollution Control Regulations of the ALBUQUERQUE BERNALILLO COUNTY AIR QUALITY CONTROL BOARD limit emission of particulate matter and the use of cut back asphalt. It is the responsibility of the Contractor to clarify these restrictions with the ENVIRONMENTAL HEALTH DEPARTMENT prior to submittal of bids to avoid conflicts with the regulations. Any required permits will be the responsibility of the CONTRACTOR.
7. All Excavation shall be governed by Federal State and Local Laws. Rules and regulations concerning CONSTRUCTION SAFETY and HEALTH.
8. All Signs, Pavement Markings and Coding will be in accordance with the "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" current edition. Published by the U.S. DEPARTMENT OF TRANSPORTATION.
9. Noise Suppression Devices shall be kept in working order on all equipment in accordance with all Federal and State Regulations and City Ordinances throughout the course of CONSTRUCTION.
10. Work performed by the CONTRACTOR on the Alameda Drain Crossing at Candelaria shall be coordinated with the MIDDLE RIO GRANDE CONSERVANCY DISTRICT. Phone No. 243-6796.
11. The Contractor shall confine his operations to the construction limits of the project and will be held responsible for any damage caused by his operation to public or private property, including utilities.
12. Watering for Dust Control, as required, shall be considered incidental to construction, and no measurment or payment shall be made therefor. Construction areas shall be watered or otherwise kept dust free. The Contractor shall use watering equipment for dust pollution abatement as directed by the Project Manager.
13. All build, relocate, adjust, or remove notes are to be performed by the Contractor under this Contract unless otherwise noted.
14. During non-working hours, construction equipment shall not obstruct driveway openings onto private properties and shall not be parked within the right-of-way. The Construction Clear Zone for this Project is 15 feet from the edge of the driving lane. The CONTRACTOR shall not store any equipment or material within the Construction Clear Zone.
15. A minimum of two (2) working days prior to any excavation the Contractor must contact ONE CALL line locating service (260-1990) for field locations of existing utilities.
16. The CONTRACTOR is to exercise care when removing existing pavement to avoid disturbing any existing underground utilities. It shall be his responsibility to coordinate with the UTILITY COMPANIES in order to prevent any service disruption. Any existing utilities or service lines that do not require relocation and are damaged by the CONTRACTOR shall be removed and replaced at the CONTRACTORS EXPENSE. This expense shall be considered incidental to the project and no separate payment will be made.
17. CURB and GUTTER, SIDEWALKS and DRIVEPADS shown as existing and not to be removed under this CONTRACT, which are damaged or displaced by the CONTRACTOR, shall be removed and replaced by the CONTRACTOR at his expense.
18. The CONTRACTOR shall be responsible for protecting, supporting and maintaining in service all existing utilities.
19. The CONTRACTOR is responsible for any damage caused by him to existing valve boxes, traffic conduit and manholes during construction and shall repair or replace same at his own expense. The CONTRACTOR shall protect the curb and gutter from incidental splashing during tack coat application and CONTRACTOR shall be responsible for cleaning the same at his own expense in the event of splashing.
20. All ties to existing pavement shall be a neat line saw cut joint. Saw cut existing pavement to a straight line and at right angles to remove any broken or cracked pavement. This work shall be considered incidental to construction and no direct payment will be made therefore.
21. Existing concrete driveways, asphaltic driveways and paved parking lots shall be saw cut to a neat line where matched to new construction. This work shall be considered incidental to Construction and no direct payment will be made therefore. Curb and gutter and sidewalks shall be removed to nearest joint.
22. The FIRE DEPARTMENT shall be notified 48 hours in advanced by the CONTRACTOR whenever a fire hydrant is to be removed or is to be out of service.
23. All Gas Valves Boxes, Gas Manholes, Electrical Manholes, Telephone Manholes and Utility Poles will be adjusted to grade or relocated by others.
24. Utility adjustments will be done concurrent with construction by Utility Companies involved. The CONTRACTOR is hereby advised that he shall coordinate his work with respective Utility Companies with enough time so as not to impede his work.
25. The City of Albuquerque Traffic Division will remove all existing above ground traffic signal equipment deemed salvageable by the City. Remaining signal items (traffic detectors, concrete bases, conduit, pull boxes, etc.) shall be removed by the Contractor as a part of the removal bid item No. 202001. All removal of traffic equipment shall be coordinated by the Contractor with the City.
26. Prior to construction in any phase, the Contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the Contractor shall notify the Project Manager so that the conflict can be resolved with minimum amount of delay. This work shall be considered incidental to construction and no direct payment will be made thereof.

27. New street light bases and conduit shall be installed under this contract prior to the removal of the existing street lights by Public Service Company of New Mexico. The Contractor shall coordinate installation of the new Street Lights with the electric company. (PNM)
28. The Contractor shall notify the City Surveyor 48 hours in advance of construction affecting a City survey monument. Phone No. 764-1612
29. All permanent striping and pavement markings for this project shall be applied by the CONTRACTOR. Payment for this work will be made under appropriate bid items.
30. All curb dimensions shown are to face of curb unless otherwise noted.
31. The use of thirty-five (35) ton or greater roller or vibratory roller will not be allowed on this project. The required compaction shall be affected by means of other types of compaction equipment.
32. Subgrade preparation under Curb and Gutter, Sidewalks and Drivepads shall be considered incidental to the Construction of such and no direct payment shall be made for those items of work.
33. The design "R" value for this project is 20. Material with an "R" value of less than 20 shall not be placed or allowed to remain within two feet of the finished subgrade. If the removal of unsatisfactory material is necessary, it shall be replaced to the extent possible with acceptable excess material that is removed from beneath the existing asphalt pavement above finished subgrade level. If sufficient material is not available from this source, item number 203010 (Borrow) will be used.
34. After conducting the necessary tests, the City will determine if Hydrated Lime or Liquid Anti-Stripping agent will be used for the open graded friction course. If Hydrated Lime is used, item No. 404200 Liquid Anti-Stripping agent, concentrate grade, will be deleted from the CONTRACT and payment for the Hydrated Lime will be effected at the unit price bid for item No. 404150 - Hydrated Lime.
35. A Disposal Site for all excess excavation material, asphaltic paving, concrete curb and gutter, foundations and walls shall be obtained by the CONTRACTOR. All cost incurred in obtaining a Disposal Site and haul thereto shall be included in the unit bid price for (Item 202001) Removal of Structures and Obstructions.
36. The Open-Graded Friction Course Operation shall be the CONTRACTOR'S last Surfacing Operation.
37. It is the intent of the owner to require the CONTRACTOR to remove the Bituminous Pavement and Portland Cement Concrete Pavement Surfaces from lip to lip of gutters, along a straight line across intersections as shown on the plans to depth and parameters established in the plans and specifications. The owner makes no representation in regard to the relative ease or difficulty that the CONTRACTOR may encounter in performing this work. It is the CONTRACTOR'S sole responsibility to thoroughly investigate site conditions and submit a bid in accordance with what he has discovered. Any and all records pertinent to this item and other items on this project are available for inspection at the City Engineer's Office.
38. All Manhole Frames and Covers and Water Valve Frames and Lids Left in Service within the Project Limits shall be adjusted to grade with concrete collars in accordance with the Standard Details.
39. The use of Adjusting Rings within the Manhole Frames to adjust Manhole Covers will not be permitted.
40. All textured concrete median pavement on this project shall be constructed in accordance with the City of Albuquerque Standard Specifications, section 346. The color is to be "Baja Red", running bond pattern.
41. Wheel chair ramps shall be constructed in accordance with C.O.A. Std. Dwgs 2440 and 2441. Measurement and payment for wheel chair ramps shall be per equivalent quantity of 4" sidewalk.
42. Concrete sidewalks, drivepads, wheelchair ramps, curb and gutter, and concrete median pavement shall be constructed of Class A, 3000 psi portland cement concrete.
43. Joints for concrete pipe shall be of the flexible watertight "O-ring" gasketed type per the requirements of Sections 501.024 and 501.033 of the Standard Specifications.
44. All PVC sleeves for future median irrigation shall be class 200 PVC in accordance with section 1001.5.9 of the City of Albuquerque Standard Specifications.
45. All new permanent median curb and gutter shall be "mountable" in accordance with C.O.A. Standard Drawing 2415, or 6" extruded concrete curb per detail on Sheet 2-7.
46. All new reinforced concrete pipe (RCP) for storm drain construction shall be Class IV unless otherwise noted on the plans.
47. All new storm inlets shall be installed per City of Albuquerque Standard Specifications and City of Albuquerque Standard Drawings.
48. All new 3/4" - 2" water services shall be installed per section 802.4 of the Albuquerque Standard Specifications.
49. Earthwork Quantities are based on a shrinkage factor of 15% in roadway embankment. Volumes of unclassified excavation, subgrade excavation and replacement and Borrow are only approximations. Payment for these items will be made on quantities as determined in the field by survey cross sections.
50. No Materials Pit has been designated for this Project. The Contractor may obtain Specification Surfacing Material from any acceptable source.
51. Materials testing and Construction Staking to be performed by the City of Albuquerque.

LEGEND

BUILDING

WIRE MESH, CHAIN LINK FENCE

WIRE FENCE

WOOD FENCE

ROCK OR BLOCK WALL

POST

SIGN

TREE

FLOW LINE OF DITCH

RAILROAD TRACKS

CURB & GUTTER

LAYDOWN CURB, DRIVEPAD

SIDEWALK

WHEEL CHAIR RAMP

PAVING LIMITS

DIRT ROAD

CONCRETE PAVING

PAVEMENT PATCH

EARTH

CONTOURS

TELEPHONE BOX

UTILITY POLE

UTILITY POLE w/GUY WIRE

STREET LIGHT, LUMINAIRE

FIRE HYDRANT

WATER VALVE

AIR RELIEF VALVE

WATER METER

WATER SERVICE CONNECTION

SANITARY SEWER MANHOLE

STORM DRAIN MANHOLE

SANITARY SERVICE CONNECTION

TELEPHONE MANHOLE

DROP INLET

WATER LINE

SANITARY SEWER LINE

STORM DRAIN LINE

GAS LINE

UNDERGROUND POWER LINES

OVERHEAD POWER LINES

UNDERGROUND TELEPHONE LINES

OVERHEAD TELEPHONE LINES

CABLE TV LINES

SURVEY, CONSTRUCTION CENTERLINE

CITY MONUMENT

BENCH MARK

R/W LINE, PROPERTY LINE

EASEMENT

FINISHED FLOOR ELEVATION

SPOT ELEVATION

CONTROL POINT, P.I.

SECTION CORNERS

CONDUIT

PEDESTAL POLE BASE

PEDESTAL POLE w/SIGNAL

MASTARM w/SIGNAL

PULL BOX

CONTROLLER

DETECTOR LOOPS

SIGN

BARRICADE

CURVE DATA REFERENCE

TEXTURED CONCRETE MEDIAN PAVEMENT

FRICTION COURSE LIMITS

PROPOSED

WIRE MESH, CHAIN LINK FENCE

WIRE FENCE

WOOD FENCE

ROCK OR BLOCK WALL

POST

SIGN

TREE

FLOW LINE OF DITCH

RAILROAD TRACKS

CURB & GUTTER

LAYDOWN CURB, DRIVEPAD

SIDEWALK

WHEEL CHAIR RAMP

PAVING LIMITS

DIRT ROAD

CONCRETE PAVING

PAVEMENT PATCH

EARTH

CONTOURS

TELEPHONE BOX

UTILITY POLE

UTILITY POLE w/GUY WIRE

STREET LIGHT, LUMINAIRE

FIRE HYDRANT

WATER VALVE

AIR RELIEF VALVE

WATER METER

WATER SERVICE CONNECTION

SANITARY SEWER MANHOLE

STORM DRAIN MANHOLE

SANITARY SERVICE CONNECTION

TELEPHONE MANHOLE

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CURVE DATA REFERENCE

TEXTURED CONCRETE MEDIAN PAVEMENT

FRICTION COURSE LIMITS

EXISTING

WIRE MESH, CHAIN LINK FENCE

WIRE FENCE

WOOD FENCE

ROCK OR BLOCK WALL

POST

SIGN

TREE

FLOW LINE OF DITCH

RAILROAD TRACKS

CURB & GUTTER

LAYDOWN CURB, DRIVEPAD

SIDEWALK

WHEEL CHAIR RAMP

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WATER METER

WATER SERVICE CONNECTION

SANITARY SEWER MANHOLE

STORM DRAIN MANHOLE

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CITY MONUMENT

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SPOT ELEVATION

CONTROL POINT, P.I.

SECTION CORNERS

CONDUIT

PEDESTAL POLE BASE

PEDESTAL POLE w/SIGNAL

MASTARM w/SIGNAL

PULL BOX

CONTROLLER

DETECTOR LOOPS

SIGN

BARRICADE

CURVE DATA REFERENCE

TEXTURED CONCRETE MEDIAN PAVEMENT

FRICTION COURSE LIMITS

F.H.V.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		1-6	

FOR INFORMATION AND PROJECT COORDINATION WITH PRIVATE UTILITY COMPANIES CONTACT THE FOLLOWING INDIVIDUALS:

U.S. WEST COMMUNICATIONS
JOYCE ELLIOTT
STA. 954
201 3rd STREET N.W.
ALBUQUERQUE, N.M. 87103
PHONE: 245-8787

GAS COMPANY OF NEW MEXICO
TIM CYNNOVA
4625 EDITH BOULEVARD N.E.
ALBUQUERQUE, N. M. 87107
PHONE: 889-2538

JONES INTERCABLE
YVETTE SUAZO
P.O. BOX 27138
ALBUQUERQUE, N.M. 87125
PHONE: 761-6200

PUBLIC SERVICE CO OF NEW MEXICO
TOM GRIMES
ALVARADO SQUARE
MAIL STOP 0208
ALBUQUERQUE, N. M. 87158
PHONE: 848-4947

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION

ENGINEER'S SEAL

REMARKS

DESIGN

DATE

BY

NO.

DATE

BY

CONTRACTOR

DATE

DATE

DATE

DATE

DATE

DATE

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: GENERAL NOTES / LEGEND SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R. W. Kane	9-6			

SPECIAL PROVISIONS

MODIFYING NEW MEXICO STATE HIGHWAY AND TRANSPORTATION
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:

MODIFYING DIVISION	100	-	SUBSTITUTE CITY OF ALBUQUERQUE GENERAL CONDITIONS
MODIFYING SECTION	304	-	BASE COURSE AND SUBBASE (6-28-89)
MODIFYING SECTION	401	-	PLANT MIX BITUMINOUS PAVEMENT (3-29-90)
MODIFYING SECTION	401	-	PLANT MIX BITUMINOUS PAVEMENT (8-24-84)
MODIFYING SECTION	401B-	-	PLANT MIX BITUMINOUS PAVEMENT TESTING BY THE CONTRACTOR (3-29-90)
MODIFYING SECTION	402	-	BITUMINOUS MATERIALS (4-8-87)
MODIFYING SECTION	404	-	OPEN GRADED FRICTION COURSE (3-29-90)
MODIFYING SECTION	404	-	OPEN GRADED FRICTION COURSE (8-27-84)
MODIFYING SECTION	407	-	TACK COAT (2-1-91)
MODIFYING SECTION	408	-	PRIME COAT (2-1-91)
MODIFYING SECTION	501	-	PIPE CULVERT AND UNDERDRAINS (12-19-88)
MODIFYING SECTION	503	-	PORTLAND CEMENT CONCRETE (1-22-91)
MODIFYING SECTION	504	-	STEEL REINFORCEMENT (2-1-91)
MODIFYING SECTION	605	-	UNDERDRAINS (10-25-88)
MODIFYING SECTION	701	-	TRAFFIC SIGNS AND SIGN STRUCTURES (4-5-88)
MODIFYING SECTION	702	-	TRAFFIC CONTROL DEVICES FOR DETOURS (9-20-89)
FOR SUBGRADE EXCAVATION AND REPLACEMENT			(4-19-88)
FOR ASPHALT TREATED OPEN-GRADED BASE COURSE			(3-15-88)
FOR GEOTEXTILE SEPARATOR FABRIC			(4-22-87)
FOR GEOTEXTILE SEPARATOR FABRIC TYPE "A"			(2-17-88)

MODIFYING CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS
FOR PUBLIC WORKS CONSTRUCTION:

MODIFYING SECTION 101 - PORTLAND CEMENT CONCRETE
MODIFYING SECTION 801 - INSTALLATION OF WATER TRANSMISSION, COLLECTOR AND DISTRIBUTION LINES

SUPPLEMENTAL SPECIFICATIONS

MODIFYING NEW MEXICO STATE HIGHWAY AND TRANSPORTATION
STANDARD SPECIFICATIONS:

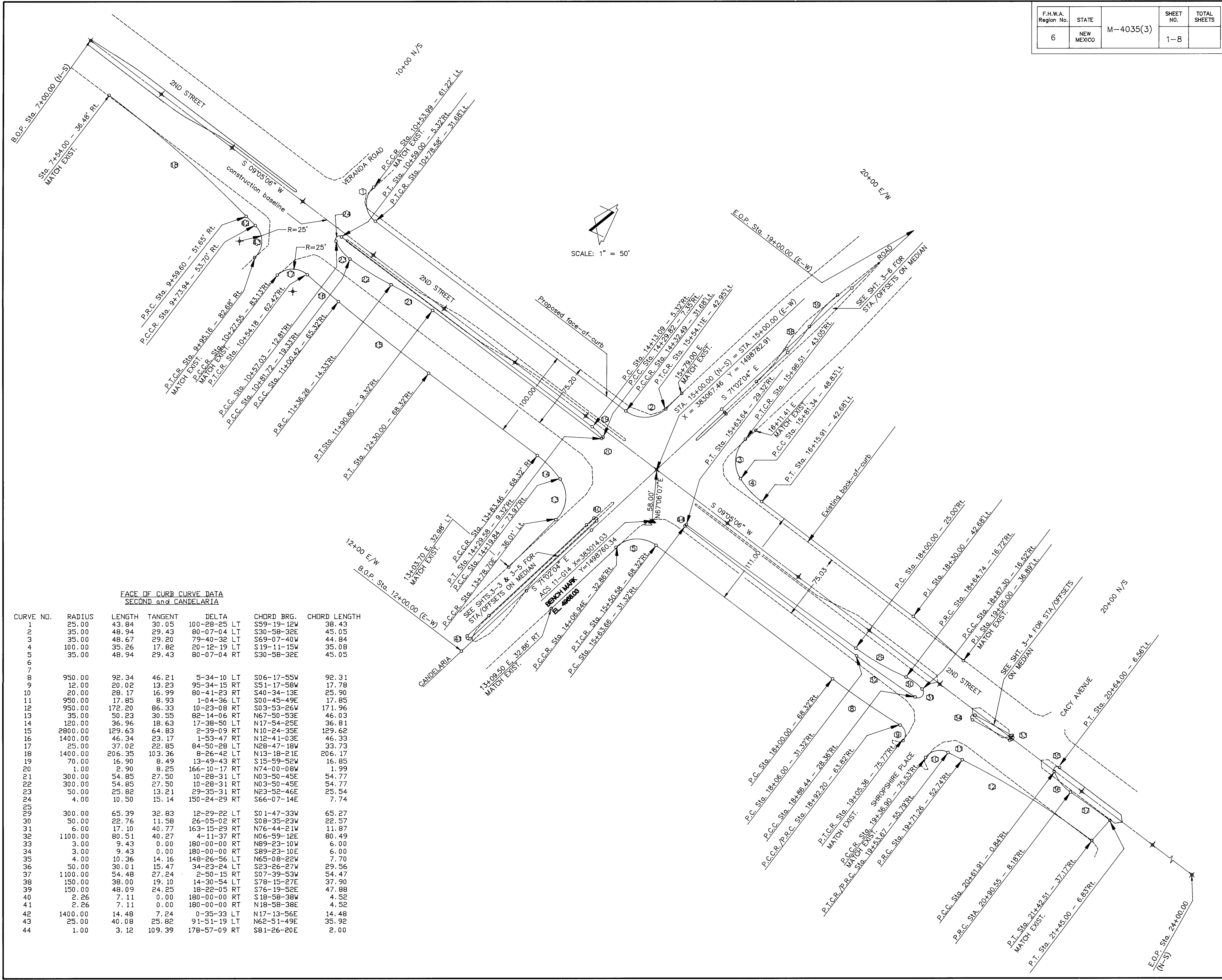
MODIFYING	DIVISION	100	-	SUBSTITUTE CITY OF ALBUQUERQUE GENERAL CONDITIONS
MODIFYING	SECTION	203	-	EXCAVATION, BORROW, EMBANKMENT (6-30-86)
MODIFYING	SECTION	401	-	PLANT MIX BITUMINOUS PAVEMENT (9-26-88)
MODIFYING	SECTION	402	-	BITUMINOUS MATERIAL (4-10-90)
MODIFYING	SECTION	404	-	OPEN GRADED FRICTION COURSE (3-28-90)
MODIFYING	SECTION	408	-	PRIME COAT (2-2-87)
MODIFYING	SECTION	501	-	PIPE CULVERTS AND UNDERDRAINS (6-30-86)
MODIFYING	SECTION	503	-	PORTLAND CEMENT CONCRETE (9-26-88)
MODIFYING	SECTION	509	-	CONCRETE STRUCTURES (2-19-87)
MODIFYING	SECTION	603	-	RIPRAP (2-26-90)
MODIFYING	SECTION	615	-	PAINT (9-25-85)
MODIFYING	SECTION	621	-	MOBILIZATION (9-19-84)
MODIFYING	SECTION	701	-	TRAFFIC SIGNS AND SIGN STRUCTURES (9-3-87)
MODIFYING	SECTION	702	-	TRAFFIC CONTROL DEVICES FOR DETOURS (6-1-87)
MODIFYING	SECTION	703	-	TRAFFIC MARKERS (6-8-87)
MODIFYING	SECTION	704	-	PAVEMENT MARKINGS (2-6-90)
MODIFYING	SECTION	711	-	WIRING (6-30-89)
MODIFYING	SECTION	713	-	DETECTORS (5-19-86)
MODIFYING	SECTION	718	-	REFLECTORIZED PLASTIC PAVEMENT SYMBOLS, LEGENDS, STRIPES, MARKINGS (7-14-86)
SPECIAL DRAWING P-24-2 - TEMPORARY TAPERS (CITY)				

LIST OF INCIDENTALS

1. PROVIDE NEWS MEDIA INFORMATION REGARDING CONSTRUCTION ACTIVITY. SEE TRAFFIC CONTROL NOTE NO. 1 ON SHEET 4-4.
2. COORDINATING CONTRACTORS WORK WITH UTILITY COMPANY WORK. SEE GENERAL NOTE NO. 24.
3. WATERING FOR DUST CONTROL. SEE GENERAL NOTE NO. 12.
4. EXISTING IMPROVEMENTS DAMAGED OR INADVERTENTLY DISTURBED BY THE CONTRACTOR INCLUDING SIGNALS, UTILITIES, PAVEMENT, CURBS, SIDEWALKS, MANHOLES VALUES, FENCES AND LANDSCAPING SEE GENERAL NOTES NO'S 16, 17, 18 AND 19.
5. SAW CUTTING EXISTING ASPHALT AND CONCRETE PAVEMENT. SEE GENERAL NOTES NO'S 20 & 21.
6. EXPLORATORY EXCAVATION OF EXISTING UNDERGROUND LINES TO DETERMINE EXACT HORIZONTAL AND VERTICAL LOCATION. SEE GENERAL NOTE NO. 26.
7. SUBGRADE PREPARATION UNDER NEW CURB AND GUTTER, SIDEWALK AND DRIVEPADS. SEE GENERAL NOTE NO. 32.
8. DISPOSAL OF MATERIALS REMOVED IN CONJUNCTION WITH CONSTRUCTION AND EXCESS MATERIAL FROM WITHIN CONSTRUCTION AREA. SEE GENERAL NOTE NO. 35.
9. JOINTS REQUIRED FOR CONCRETE PAVEMENT, CURB & GUTTER AND SIDEWALK INCLUDING SAWING, CLEANING, BITUMINOUS MATERIALS, STEEL AND JOINT FILLERS.
10. INSTALLATION OF TRANSITION FROM CONCRETE CURB TO ASPHALT PAVEMENT TRANSITION. SEE DETAIL SHEET 2-7.
11. PAINTING MEDIAN CURB REFLECTORIZED YELLOW. SEE SHEET 2-6.
12. PLUGGING EXISTING STORM DRAIN LINES AT MANHOLES. SEE SHEETS 3-7 & 3-8.
13. TEMPORARY 6 FT. CHAIN LINK FENCE AND GATES AROUND TOMS MOTOR LOCATED AT SOUTHEAST CORNER OF 2ND STREET/CANDELARIA ROAD. SEE NOTES 6 AND 7 SHEET 3-3.

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		1-7.1	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP									
TITLE: SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, LIST OF INCIDENTALS SECOND STREET / CANDELARIA ROAD									
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE				
DRC CHAIRMAN			WATER						
TRANSPORTATION			WASTE WATER						
HYDROLOGY									
PROJECT M-4035(3)		MAP NO.		SHEET		OF			
NO. COA PROJ No. 3203		G-14				1-7.1			



F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		1-8	

FACE OF CURB CURVE DATA SECOND and CANDELARIA						
CURVE NO.	RADIUS	LENGTH	TANGENT	DELTA	CHORD BRG.	CHORD LENGTH
1	25.00	43.84	30.05	100-28-25 LT	S59-19-12W	38.43
2	35.00	48.94	29.43	80-07-04 LT	S30-58-32E	45.05
3	35.00	48.67	29.20	79-40-32 LT	S69-07-40W	44.84
4	100.00	35.26	17.82	20-12-19 LT	S19-11-15W	35.08
5	35.00	48.94	29.43	80-07-04 RT	S30-58-32E	45.05
6						
7						
8	950.00	92.34	46.21	5-34-10 LT	S06-17-55W	92.31
9	12.00	20.02	13.23	95-34-15 RT	S51-17-58W	17.78
10	20.00	28.17	16.99	80-41-23 RT	S40-34-13E	25.90
11	950.00	17.85	8.93	1-04-36 LT	S00-45-49E	17.85
12	950.00	172.20	86.33	10-23-08 RT	S03-53-26W	171.96
13	35.00	50.23	30.55	82-14-06 RT	N67-50-53E	46.03
14	120.00	36.96	18.63	17-38-50 LT	N17-54-25E	36.81
15	2800.00	129.63	64.83	2-39-09 RT	N10-24-35E	129.62
16	1400.00	46.34	23.17	1-53-47 RT	N12-41-03E	46.33
17	25.00	37.02	22.85	84-50-28 LT	N28-47-18W	33.73
18	1400.00	206.35	103.36	8-26-42 LT	N13-18-21E	206.17
19	70.00	16.90	8.49	13-49-43 RT	S15-59-52W	16.85
20	1.00	2.90	8.25	166-10-17 RT	N74-00-08W	1.99
21	300.00	54.85	27.50	10-28-31 LT	N03-50-45E	54.77
22	300.00	54.85	27.50	10-28-31 RT	N03-50-45E	54.77
23	50.00	25.82	13.21	29-35-31 RT	N23-52-46E	25.54
24	4.00	10.50	15.14	150-24-29 RT	S66-07-14E	7.74
25						
26	300.00	65.39	32.83	12-29-22 LT	S01-47-33W	65.27
27	50.00	22.76	11.58	26-05-02 RT	S08-35-23W	22.57
28	17.10	40.77	16.33	15-29-29 RT	N76-44-21W	11.87
29	6.00	40.27	4.11	37-37 RT	N06-59-12E	80.49
30	1100.00	80.51	40.27	4-11-37 RT	N06-59-12E	80.49
31	3.00	9.43	0.00	180-00-00 RT	N89-23-10W	6.00
32	3.00	9.43	0.00	180-00-00 RT	S89-23-10E	6.00
33	4.00	10.36	14.16	148-26-56 LT	N65-08-22W	7.70
34	50.00	30.01	15.47	34-23-24 LT	S23-26-27W	29.56
35	1100.00	54.48	27.24	2-50-15 RT	S07-39-53W	54.47
36	150.00	38.00	19.10	14-30-54 LT	S78-15-27E	37.90
37	150.00	48.09	24.25	18-22-05 RT	S76-19-52E	47.88
38	2.26	7.11	0.00	180-00-00 RT	S18-58-38W	4.52
39	2.26	7.11	0.00	180-00-00 RT	N18-58-38E	4.52
40	1400.00	14.48	7.24	0-35-33 LT	N17-13-56E	14.48
41	25.00	40.08	25.82	91-51-19 LT	N62-51-49E	35.92
42	1.00	3.12	109.39	178-57-09 RT	S81-26-20E	2.00

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: GEOMETRICS PLAN 2ND AND CANDELARIA					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-90	WATER	R.W. Kane	9-6-90
TRANSPORTATION	<i>[Signature]</i>	9-6-90	WASTE WATER	R.W. Kane	9-6-90
HYDROLOGY	NA				
PROJECT NO. M-4035(3) COA PROJ NO. 3203		MAP NO. G-14	SHEET 1-8 OF		
AS BUILT INFORMATION					
CONTRACTOR: A.C.S. Brass Tablet marked "11-G14" 1979. Located at the southwest corner of Candelaria Road and Second Street N.W. Elevation 4968.03					
BENCH MARKS					
SURVEY INFORMATION					
FIELD NOTES					
ENGINEER'S SEAL					
REMARKS					
DESIGNED BY: RL					
DRAWN BY: JGL					
CHECKED BY: RL					
DATE: 9/15/90					
DATE: 9/15/90					

26 3203.900892

PREPARED BY:
SCANLON & ASSOCIATES
8008 PENNSYLVANIA CIRCLE N.E.
ALBUQUERQUE, NEW MEXICO 87110

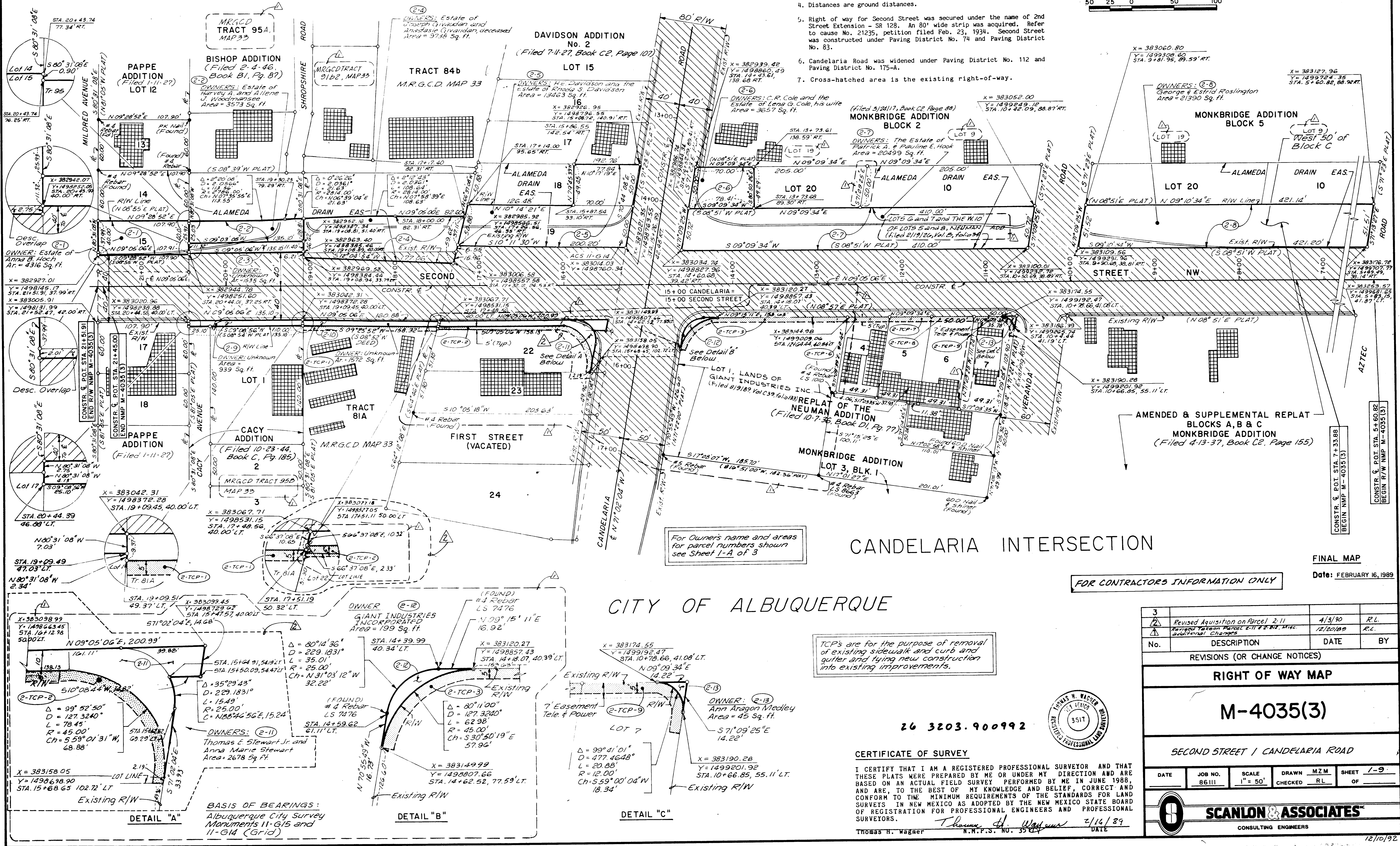
SCANLON & ASSOCIATES
CONSULTING ENGINEERS

F.H.W.A. Region No.	STATE	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	M-4035(3)	

NOTES

- All information on this sheet is based on the New Mexico State Plane Coordinate System (Central Zone).
- Monuments used for control on this project are Albuquerque City Survey Monuments 6-G15 and 11-G14. Brass caps in concrete.
- Bearings are grid bearings.
- Distances are ground distances.
- Right of way for Second Street was secured under the name of 2nd Street Extension - SR 128. An 80' wide strip was acquired. Refer to cause No. 21235, petition filed Feb. 23, 1934. Second Street was constructed under Paving District No. 74 and Paving District No. 83.
- Candelaria Road was widened under Paving District No. 112 and Paving District No. 175-A.
- Cross-hatched area is the existing right-of-way.

50 25 0 50 100



FINAL MAP

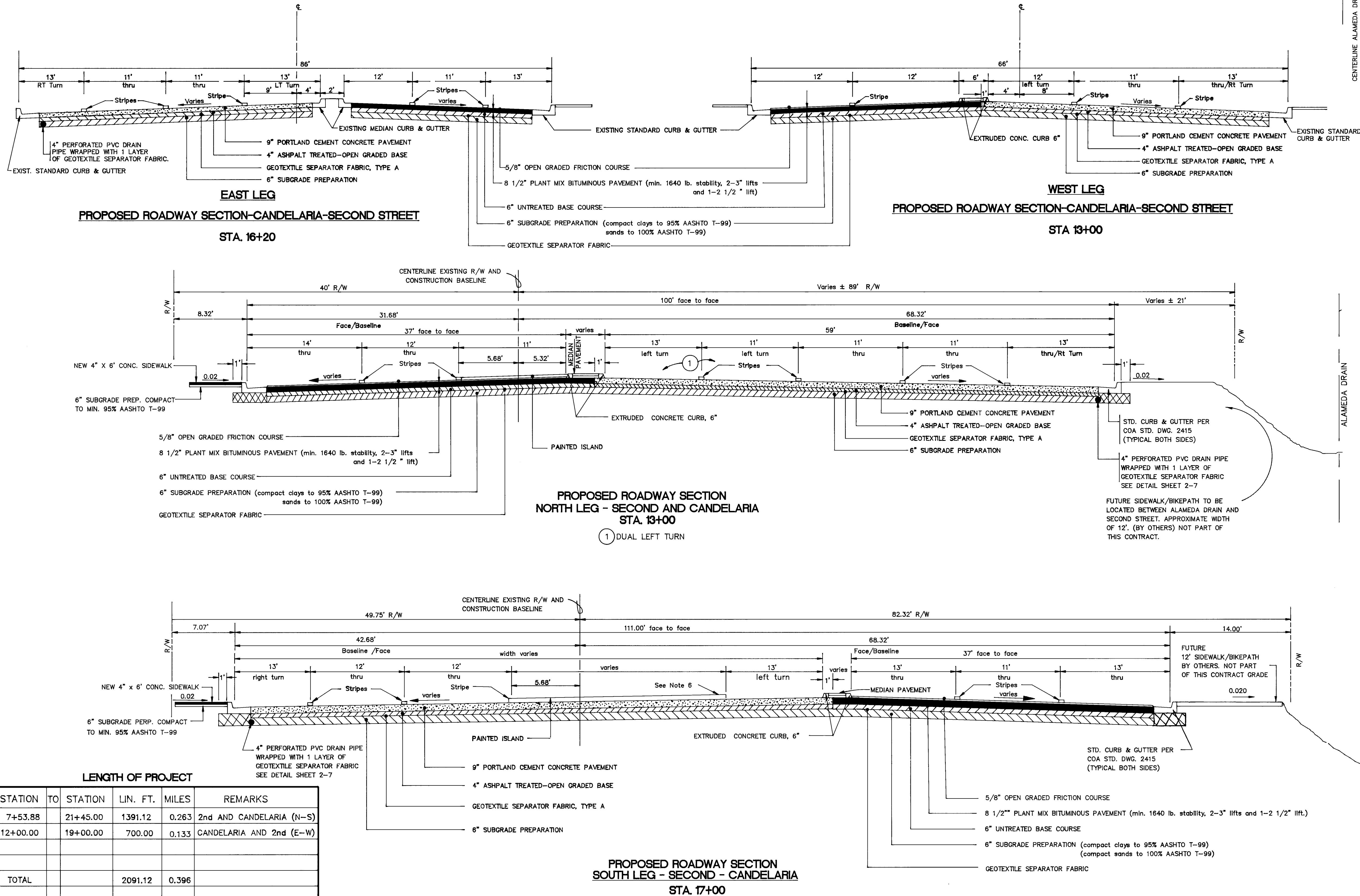
Date: FEBRUARY 16, 1989

FOR CONTRACTORS INFORMATION ONLY

No.	DESCRIPTION	DATE	BY
3	Revised Acquisition on Parcel 2-11	4/3/90	R.L.
4	Revised Acquisition on Parcel 2-11	12/10/89	R.L.
No.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
RIGHT OF WAY MAP			
M-4035(3)			
SECOND STREET / CANDELARIA ROAD			
DATE	JOB NO.	SCALE	DRAWN
	86111	1" = 50'	M.Z.M.
		CHECKED	R.L.
			SHEET 1-9
			OF
SCANLON & ASSOCIATES			
CONSULTING ENGINEERS			

Time 2:35 PM
Drawing File: R01000
Drawing: C:\A-CAD\Bentley\

LENGTH OF PROJECT				
STATION	TO STATION	LIN. FT.	MILES	REMARKS
7+53.88	21+45.00	1391.12	0.263	2nd AND CANDELARIA (N-S)
12+00.00	19+00.00	700.00	0.133	CANDELARIA AND 2nd (E-W)
TOTAL		2091.12	0.396	



F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		2-1	

NOTES:

- Typical sections on Second Street are taken looking south.
- Typical sections on Candelaria Road are taken looking east.
- Plant mix Bituminous pavement shall have a min. Marshall stability of 1640 pounds.
- The requirement for 6" subgrade prep. is based on existing materials having a min. R-value = 20. Where existing subgrade is not acceptable it will be removed to a minimum depth of 2' below subgrade level and replaced with select subgrade materials meeting this min. requirement. The limits of removal and replacement will be determined in the field by the Project Engineer based on testing performed after existing surfacing is removed. This work to be paid for under bid item No. 203005, Subgrade Excavation and Replacement.
- TRAFFIC DATA:
2ND AND CANDELARIA:
design speed = 40 mph
ADT actual (1988)=22,900
ADT (2010) = 30800
DHV (2010) = 3080
%HC (1988) = 5.5%
%HC (2010) = 6.3%
%HC during DHV = 29%
ADL (2010) = 390 flex
- 8" White solid "CHEVRON" striping. See signals / lighting / striping plans for details.
- 8 1/2" PMBP course shall be finished to match lip of gutter grade.
- All cut / fill slopes at back-of-curb or back-of-sidewalk shall be 4:1 max. to natural ground unless otherwise noted in the plans.
- Paved areas between back of sidewalk and R/W line to be paved with like surfacing to match existing.
- Crown slope varies from 1.0% minimum to 2.5% maximum. See paving plan and profile sheets.
- Subgrade material with a Plasticity Index (PI) of 10 and above to be considered a clay and is to be compacted to 95% AASHTO T-99. All other subgrade material to be compacted to 100%, AASHTO T-99.

26 3203.901092

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ROADWAY TYPICAL SECTIONS
SECOND STREET / CANDELARIA ROAD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-90	WATER	R.W. Kane	9-6-90
TRANSPORTATION	<i>[Signature]</i>	9-6-90	WASTE WATER	R.W. Kane	9-6-90
HYDROLOGY	NA				

PROJECT NO.	M-4035(3) COA PROJ NO. 3203	MAP NO.	G-14	SHEET	2-1	OF	
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RECORD DRAWING

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR		DATE		WORK		DATE		FIELD NOTES		DATE					
STANDARD BY		DATE		STANDARD BY		DATE		BY		DATE					
FIELD ACCEPTANCE BY		DATE		FIELD ACCEPTANCE BY		DATE		NO.							
FIELD ACCEPTANCE BY		DATE		FIELD ACCEPTANCE BY		DATE						REVISIONS			
FIELD ACCEPTANCE BY		DATE		FIELD ACCEPTANCE BY		DATE						DESIGN			
FIELD ACCEPTANCE BY		DATE		FIELD ACCEPTANCE BY		DATE						DESIGNED BY	RL	DATE	9/5/90
FIELD ACCEPTANCE BY		DATE		FIELD ACCEPTANCE BY		DATE						DRAWN BY	JCL	DATE	9/5/90
FIELD ACCEPTANCE BY		DATE		FIELD ACCEPTANCE BY		DATE						CHECKED BY	RL	DATE	9/5/90

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		2-2.1	

				207001		304018				PLANT MIX BITUMINOUS PAVEMENT TYPE 1, GRADE B						404002							407XXX	408XXX	604055		
				SUBGRADE PREPARATION		BASE COURSE										OPEN GRADED FRICTION COURSE				60-70 BITUM. MATERIAL	HYDRATED LIME	LIQUID ANTI STRIPPING AGENT	TACK COAT	PRIME COAT	GEOTEXTILE SEPARATOR FABRIC		
DESCRIPTION	STATION TO STATION		LENGTH	WIDTH	SQ. YDS.	WIDTH	DEPTH	SQ. YDS.	TONS*	WIDTH	DEPTH	401216 2" LIFTS SQ. YDS.	401217 2 1/2" LIFTS SQ. YDS.	40121X 3" LIFTS SQ. YDS.		WIDTH	DEPTH	SQ. YDS.	TONS*	TONS*	TONS*	TONS*	TONS*	SQ. YDS.	SQ. YDS.	WIDTH	SQ.YDS.
SECOND ST.	B.O.P. 7+53.88	10+40.00	286.12	VARIES	338.75	VARIES	6.00	338.75	108.68	VARIES	8 1/2		338.75	677.50		VARIES	5\8	1304.06	40.75	2.77	0.41	0.03		677.50	1304.06	VARIES	338.75
SECOND ST.	10+40.00	13+00.00	260.00	VARIES	1876.07	VARIES	6.00	1876.07	601.91	VARIES	8 1/2		1876.07	3752.14		VARIES	5\8	1674.13	52.32	3.56	0.52	0.04		3752.14	1674.13	VARIES	1876.07
SECOND ST.	13+00.00	17+00	400.00	VARIES	1051.67	VARIES	6.00	1051.67	337.41	VARIES	8 1/2		1051.67	2103.34		VARIES	5\8	952.61	29.77	2.02	0.30	0.02		2103.34	952.61	VARIES	1051.67
SECOND ST.	17+00	EOP 21+45	445.00	VARIES	2640.71	VARIES	6.00	2640.71	847.23	VARIES	8 1/2		2640.71	5281.42		VARIES	5\8	2939.79	91.87	6.25	0.92	0.06		5281.42	2939.79	VARIES	2640.71
SUB-TOTALS					5907.20			5907.20	1895.23				5907.20	11814.40				6870.59	214.71	14.60	2.15	0.19		11814.40	6870.59		5907.20
CANDELARIA RD.	BOP 12+00	14+00	200.00	VARIES	617.00	VARIES	6.00	617.00	197.96	VARIES	8 1/2		617.00	1234.00		VARIES	5\8	552.83	17.28	1.17	0.18	0.02		1234.00	552.83	VARIES	617.00
CANDELARIA RD.	16+11.41	18+10 EOP	198.59	VARIES	583.77	VARIES	6.00	583.77	187.29	VARIES	8 1/2		583.77	1167.54		VARIES	5\8	583.77	18.24	1.24	0.18	0.01		1167.54	583.77	VARIES	583.77
SUB-TOTALS					1200.77			1200.77	385.25				1200.77	2401.54				1136.60	35.52	2.41	0.36	0.03		2401.54	1136.60		1200.77
SECOND ST. TEMP.	7+00	10+00 APX	287	VARIES	321.20					VARIES	4	642.40												321.20			
SECOND ST. TEMP.	10+50 APX	13+00	250	VARIES	246.43					VARIES	4	492.86												246.43			
SECOND ST. TEMP.	13+00	17+00	295	VARIES	165.95					VARIES	4	331.90												165.95			
SECOND ST. TEMP.	17+00	19+00 APX	200	VARIES	204.34					VARIES	4	408.68												204.34			
SECOND ST. TEMP.	19+45 APX	20+05 APX	60	VARIES	87.97					VARIES	4	175.94												87.97			
SECOND ST. TEMP.	20+40 APX	21+60 APX	120	VARIES	184.29					VARIES	4	368.58												184.29			
CANDELARIA RD. TEMP	12+15(E) APX	14+40(E) APX	225	VARIES	182.42					VARIES	4	364.84												182.42			
SUB-TOTALS TEMP					1392.60							278															

605004 608136
 4" PERFORATED PIPE UNDERDRAIN 4" COLORED & TEXTURED CONCRETE
 MEDIAN PAVEMENT

[illegible]

STATION	TO	STATION	L.F.	DESCRIPTION
10+62		11+62 RT	100	2ND STREET
11+65		12+62 RT	97	2ND STREET
12+68		13+95 RT	127	2ND STREET
16+24		17+95 LT	171	2ND STREET
18+02		18+87 LT	85	2ND STREET
15+66 (E)		16+12 (E) LT	47	CANDELARIA ROAD
16+22 (E)		18+10 (E) LT	188	CANDELARIA ROAD
TOTAL			815	

STATION	TO	STATION	SQ. YDS.	DESCRIPTION
10+54		10+59	2.14	2ND STREET
11+36.26		13+00	64.63	2ND STREET
13+00		14+30	41.45	2ND STREET
15+64.5		17+00	30.30	2ND STREET
17+00		18+06	49.73	2ND STREET
19+50		20+02.5	2.18	2ND STREET
20+60.5		20+64	2.14	2ND STREET
SUBTOTAL			192.57	
12+14 (E)		14+10 (E)	75.55	CANDELARIA ROAD
15+60 (E)		18+41 (E)	140.42	CANDELARIA ROAD
SUBTOTAL			215.97	
TOTAL			408.54	

1. AMOUNTS OF ASPHALT MATERIALS SHOWN ON SURFACING FACTOR ARE FOR ESTIMATING PURPOSES ONLY. CORRECT AMOUNTS WILL BE DETERMINED BY THE MATERIALS AND TESTING LABORATORY.
2. AC-20 VISCOSITY GRADE ASPHALT MAY BE SUBSTITUTED FOR 60-70 PENETRATION GRADE ASPHALT IN THE OPEN GRADED FRICTION COURSE, THE PLANT MIX BITUMINOUS PAVEMENT, AND THE ASPHALT TREATED-OPEN GRADED BASE COURSE.
3. AFTER CONDUCTING THE NECESSARY TESTS THE CITY WILL DETERMINE IF HYDRATED LIME OR LIQUID ANTISTRIPPING AGENT WILL BE USED FOR THE OPEN GRADED FRICTION COURSE. COST OF HYDRATED LIME OR ANTISTRIPPING AGENT TO BE INCLUDED IN PRICE BID FOR BID ITEM NO. 4040002 OPEN GRADED FRICTION COURSE.

ITEM	BITUMINOUS MATERIAL			GAL./TON	UNIT WT. LBS./CU.YD.	HYDRATED LIME	LIQ. ANTISTRIPPING AGENT CONCENTRATE GRADE
	60-70	SPEC. 407	SPEC. 408				
PLANT MIX BITUMINOUS PAVEMENT - TYPE 1B	5.5%				3900	1.5%	
ASPHALT TREATED OPEN GRADED BASE COURSE	2.0%				3700		
BASE COURSE					3850		
OPEN-GRADED FRICTION COURSE	6.8%				3600	1.0%	1.0% OF BITUMINOUS MATERIAL
ASPHALT FOR TACK COAT		0.02 - 0.15 GAL./SQ.YD.		235.66			
ASPHALT FOR PRIME COAT			0.35 - 0.55 GAL./SQ.YD.	256.36			

3			
2			
1			
No.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SURFACING SCHEDULE SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT M-4035(3) NO. COA PROJ No. 3203		MAP NO. G-14		SHEET 2-2.1 OF	

12/10/92

RECORD DRAWING

Time: 8:42:45
Date: 2/1/1991
Drawing File: SP2-2-1
Directory: C:\A-CAD\BENTL

ESTIMATED
STRUCTURE
QUANTITIES
(DRAINAGE)

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		2-3	

STATION	STRUCTURE	SERIAL	SIZE	UNCLASSIFIED EXCAVATION			L.F.	L.F.	L.F.	POUND	C.Y.	L.F.	EACH	EACH	EACH	L.F.	C.Y.	EACH			
				INLETS	OUTLETS	TOTALS															
	2nd STREET																				
9+69.22	BUILD TYPE 'C' SINGLE INLET 53.01' RT. W/1-18"x16" RCP & 1-18"x24" RCP WYE TO EXISTING 24" RCP	COA DWG 2205					16						1			16		1			
10+58.90	BUILD TYPE 'C' SINGLE INLET 63.10' RT. (CONNECT TO EXIST. 18" RCP)	COA DWG 2205											1								
10+85.03	BUILD TYPE 'C' DOUBLE INLET 31.67' LT. W/1-24"x16" RCP & 24"- 45" BEND (CONNECT TO EXISTING 24" RCP)	COA DWG 2205						16						1		16					
11+65.00	BUILD TYPE 'C' SINGLE INLET 67.58' RT. W/1-18"x24" RCP	COA DWG 2205						24					1			24					
12+67.00	BUILD 1 - TYPE 'C' SINGLE INLET. 31.68' LT AND 1 - TYPE 'C' DOUBLE INLET. 68.32' RT ON EXISTING 24" RCP	COA DWG 2205											1	1							
14+01.83(N)	ALAMEDA DRAIN CROSSING W/ RETAINING WALL								24								175				
14+08.00	BUILD TYPE 'C' SINGLE INLET 31.68' LT. (CONNECT TO EXIST. 24" RCP)	COA DWG 2205											1								
14+71.00	BUILD TYPE 'C' DOUBLE INLET 70.00' LT. (CONNECT TO EXIST. 18" RCP)	COA DWG 2205												1							
15+06.42(N)	HANDRAILS AND 24" EXTENSION OF MULTIPLATE ARCH PIPE									5825	44.5	130.4									
15+57.03	BUILD TYPE 'C' DOUBLE INLET 68.32' RT. W/1-18"x10" RCP THRU RETAINING WALL	COA DWG 2205						10						1		10					
16+22.36	BUILD TYPE 'C' DOUBLE INLET 42.68' LT. W/1-18"x37" RCP TO EXIST. 18" RCP	COA DWG 2205						37						1		37					
18+00.00	BUILD TYPE 'C' DOUBLE INLET 42.68' LT. AND TYPE 'C' SINGLE INLET 68.32' RT. W/1-18"x108" RCP AND 1-18"x18" RCP	COA DWG 2205						126					1	1		126					
	CANDELARIA ROAD																				
16+02.96	BUILD TYPE 'C' DOUBLE INLET 43.05' RT. W/1-18"x8" RCP CONNECT TO EXIST. 48" RCP	COA DWG 2205						8						1		8		1			
18+88.00	BUILD TYPE 'A' SINGLE INLET 34.50' LT. W/1-18"x68" RCP CONNECT TO EXIST. 48" RCP	COA DWG 2201 & DWG 2202						68							1	68		1			
	TOTALS							289	16	1	5825	44.5	130.4	6	7	1	305	175	3		

M - 4035 (3)

3			
2			
1			
No.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

26 3203.901292

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: ESTIMATED DRAINAGE STRUCTURE QUANTITIES SECOND STREET / CANDELARIA ROAD			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	Rogelio 9-6-90		WATER
TRANSPORTATION	Rogelio 9-6-90		WASTE WATER
HYDROLOGY	Rogelio 9-6-90		
PROJECT M-4035(3)		MAP NO. G-14	SHEET 2-3 OF
NO. COA PROJ No. 3203			

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR				FIELD NOTES			
WORK		DATE		BY	DATE		
STAMPED BY		DATE					
ACCEPTANCE BY		DATE					
FIELD		DATE					
DRAWINGS		DATE					
CORRECTED BY		DATE					
MICRO-FILM INFORMATION							
RECORDED BY		DATE					
NO.							

Time: 9:42:40
Date: 9/6/1990
Drawing File: ESQCAN2
Directory: C:\A-CAD\86111\

[illegible]

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ESTIMATED WATER AND SAS STRUCTURE QUANTITIES SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-90	WATER	<i>R.W. Kane</i>	9-6-90
TRANSPORTATION	<i>[Signature]</i>	9-6-90	WASTE WATER	<i>R.W. Kane</i>	9-6-90
HYDROLOGY	NA				
PROJECT M-4035(3) NO. COA PROJ No. 3203			MAP NO. G-14	SHEET 2-4 OF	

12/10/92
RECORD DRAWING

Time: 8:47:20
User: JAL
Drawing File: MISCQND
Directory: C:\V-CAD\ent11\

F.H.W.A. Region No.	STATE		SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	M-4035(3)	2-5	

202001
REMOVAL OF STRUCTURES AND OBSTRUCTIONS

DESCRIPTION	UNIT	QUANTITY
SECOND STREET		
MEDIAN CURB & GUTTER	LF	2350
STANDARD CURB & GUTTER	LF	2400
SIDEWALK	SY	650
DRIVE PAD	EA	9*
SIGNAL BASE	EA	9
STREET LIGHT BASE	EA	8
S.D. PIPE	LF	355
DRAINAGE INLET	EA	11
MANHOLE	EA	1
WROUGHT IRON FENCE	LF	100
CANDELARIA ROAD		
MEDIAN CURB & GUTTER	LF	600
STANDARD CURB & GUTTER	LF	250
SIDEWALK	SY	120
DRIVE PAD	EA	6*
S.D. PIPE	LF	10
DRAINAGE INLETS	EA	1
RIPRAP	CY	60
HANDRAILING	LF	80

*INCLUDED IN SIDEWALK

664180
ADJUST MANHOLES TO GRADE

STATION	LOC.	NUMBER	REMARKS
10+33	LT	1	2ND
10+40	LT	1	2ND
15+02	LT	1	2ND
15+27	RT	1	2ND
15+32	LT	1	2ND
15+52	LT	1	2ND
15+52	RT	1	2ND
20+30	LT	1	2ND
13+45	RT	1	CANDELARIA
16+10	RT	1	CANDELARIA
TOTAL		10	

664175
ADJUST VALVE BOXES TO GRADE

STATION	LOC.	NUMBER	REMARKS
10+25	LT	1	2ND STREET
14+71	RT	1	2ND STREET
14+80	RT	1	2ND STREET
14+83	RT	3	2ND STREET
14+90	LT	4	2ND STREET
14+94	LT	1	2ND STREET
14+97	LT	3	2ND STREET
15+02	LT	1	2ND STREET
20+27	LT	1	2ND STREET
21+40	CL	1	2ND STREET
13+75(E)	LT	1	CANDELARIA ROAD
15+85(E)	LT	1	CANDELARIA ROAD
TOTAL		19	

202010
REMOVAL OF SURFACING

STATION	TO	STATION	LOC.	LENGTH	WIDTH	SQ. YDS.	DESCRIPTION
7+54	"	10+40	RT	286	6'	191	SECOND ST
9+73	"	10+54	RT	VAR.	VAR.	195	VERANDA RD
10+40	"	10+80	LT	VAR.	VAR.	125	VERANDA RD
10+40	"	19+05	LT-RT	VAR.	VAR.	6350	SECOND ST
19+05	"	20+64	LT-RT	81	VAR.	800	SECOND ST
20+64	"	21+45	RT	VAR.	VAR.	260	SECOND ST
14+30	"	15+52	RT	VAR.	VAR.	1710	CANDELARIA RD
14+32	"	15+73	LT	VAR.	VAR.	1600	CANDELARIA RD
18+85	"	19+58	RT	VAR.	VAR.	105	SHROPSHIRE RD
20+05	"	20+55	LT	VAR.	VAR.	40	CACY AVE.
TOTAL						11376	

608004
CONCRETE SIDEWALK - 4'

STATION	TO	STATION	LOC.	SQ. FT.	DESCRIPTION
9+76	"	9+95	RT	237	2ND
10+28	"	10+48	RT	253	2ND
10+53.99	"	10+78.58	LT	267	2ND
10+78.58	"	14+32.49	LT	990	2ND
14+32.49	"	15+54.11(E)	LT	312	2ND
15+96.51(E)	"	15+81.34	LT	320	2ND
15+81.34	"	19+05	LT	1447	2ND
14+19.84	"	13+78.70(E)	RT	320	2ND
14+06.94(E)	"	15+50.58	RT	342	2ND
13+03.70(E)	"	13+78.70(E)	LT	124	CANDELARIA RD
13+09.50(E)	"	14+06.94(E)	RT	280	CANDELARIA RD
15+54.11(E)	"	15+79.00(E)	LT	150	CANDELARIA RD
15+96.51(E)	"	16+11.41(E)	LT	90	CANDELARIA RD
TOTAL				5132	

606016
STATIONARY GUARD POST

STATION	LOC	NUMBER	REMARKS
9+80	RT	2	NW RET. 2ND/VERANDA
10+45	RT	2	SW RET. 2ND/VERANDA
TOTAL		4	

WHEELCHAIR RAMP

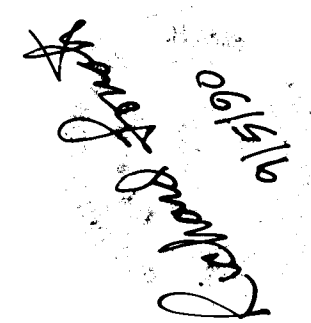
STATION	LOC.	TYPE	DESCRIPTION
9+90(N)	RT	II	NW COR. 2ND-VERANDA
10+28(N)	RT	II	SW COR. 2ND-VERANDA
10+59(N)	LT	II	SE COR. 2ND-VERANDA
14+35(N)	RT	II	NW COR. 2ND-CAND.
14+53(N)	LT	II	NE COR 2ND-CAND.
15+30(N)	RT	II	SW COR. 2ND-CAND.
15+67(N)	LT	II	SE COR. 2ND-CAND.

608026
DRIVE PAD - 6'

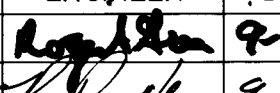
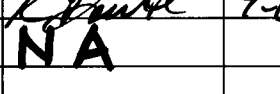
STATION	LOC.	WIDTH	SQ. FT.	REMARKS
11+11	LT	12'	130	2ND STREET
11+70	LT	35'	320	2ND STREET
12+36	LT	35'	320	2ND STREET
13+07	LT	40'	360	2ND STREET
13+79	LT	40'	360	2ND STREET
17+30	LT	35'	270	2ND STREET
18+81	LT	35'	270	2ND STREET
13+38	LT	16'	130	CANDELARIA ROAD
13+63	LT	16'	130	CANDELARIA ROAD
13+47	RT	16'	130	CANDELARIA ROAD
13+78	RT	12'	100	CANDELARIA ROAD
TOTAL			2520	

663102
REMOVE AND RESET EXISTING FIRE HYDRANT

STATION	LOC.	EACH	DESCRIPTION
10+65 N	LT	1	SE COR. 2ND-VERANDA
13+75 E	LT	1	NW COR. CAND.-2ND
14+12 E	RT	1	SW COR. CAND.-2ND
15+85 E	RT	1	SE COR. CAND.-2ND
TOTAL		4	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR				FIELD NOTES			
WORK STATED BY	DATE			BY	DATE		
ACCEPTANCE BY	DATE						
FIELD LOCATION BY	DATE						
DRAWING CORRECTED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: MISCELLANEOUS QUANTITIES SECOND STREET / CANDELARIA ROAD							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN		9-6-90	WATER	R.W. Kane	9-6-90		
TRANSPORTATION		9-6-90	WASTE WATER	R.W. Kane	9-6-90		
HYDROLOGY	NA						
PROJECT NO. M-4035(3) COA PROJ No. 3203		MAP NO. G-14		SHEET 2-5 OF			

26 3203.901492

12/10/92
RECORD DRAWING

Title: 12/10/92
 Date: 9/15/90
 Drawn by: J. L. L.
 Checked by: G. V. G. (G. V. G.)

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		2-6	

704010
 REFLECTORIZED MARKINGS

STATION TO STATION	LENGTH	4" BROKEN WHITE (PAINT)	4" SOLID WHITE (PAINT)	6" SOLID WHITE (PAINT)	8" SOLID WHITE (PLASTIC)	12" SOLID WHITE (PLASTIC)	REMARKS
7+54 TO 21+45		622	3036	1240	160		2ND ST.
INTERSECTION		97			870	217	INTERSECTION
12+08(E) TO 17+85.12(E)		196	815				CANDELARIA
TOTAL		915	3851	1240	1030	217	

REFLECTIVE PLASTIC PAVEMENT STRIPE - 8" TOTAL = 1030 USE = 1030 LIN. FT.
 REFLECTIVE PLASTIC PAVEMENT STRIPE - 12" TOTAL = 217 USE = 220 LIN. FT.

NOTE:
 COST OF PAINTING MEDIAN CURBS WITH REFLECTORIZED YELLOW IS TO BE INCLUDED IN
 THE UNIT BID PRICE FOR ITEM 704010-REFECTORIZED PAINTED MARKINGS.

609091
 8" EXTRUDED CONCRETE CURB

STATION TO STATION	LOC.	LIN.FT.	TYPE	DECRPTION
7+54.00	9+59.60	2nd St.-Rt.	206.35	8' WEST SIDE
18+00.00	18+92.20	2nd St.-Rt.	92.34	8' WEST SIDE
18+92.20	19+05.36	2nd St.-Rt.	20.02	8' CURB RETURN, SHROPSHIRE
19+36.90	19+53.67	2nd St.-Rt.	28.17	8' CURB RETURN, SHROPSHIRE
19+53.67	19+71.26	2nd St.-Rt.	17.85	8' WEST SIDE
19+71.26	21+42.51	2nd St.-Rt.	172.20	8' WEST SIDE
TOTAL			536.93	

SEE SHEET 1-8 FOR DETAILS

609092
 6" EXTRUDED CONCRETE MEDAIN CURB

STATION TO STATION	LOC.	LIN.FT.
7+00	9+90	2ND ST.- MED. 580.63
10+50	14+30	2ND ST.- MED. 758.69
15+60	18+95	2ND ST.- MED. 667.58
19+50	20+03	2ND ST.- MED. 107.57
20+60	21+60	2ND ST.- MED. 227.13
12+13(E)	14+06.33(E)	CANDEL.- MED. 393.93
TOTAL		2735.53

SEE SHEET 1-8 FOR DETAILS

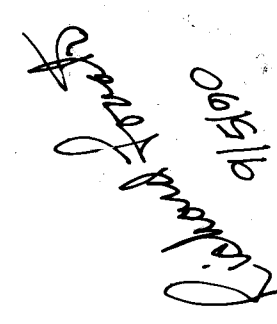
609059
 * STANDARD CONCRETE BARRIER CURB AND GUTTER

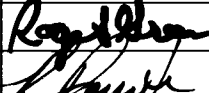
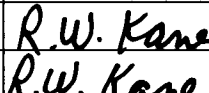
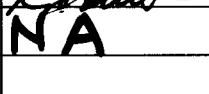
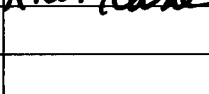
STATION TO STATION	LOC.	LIN.FT.	TYPE	DECRPTION
10+53.99	10+78.58	2nd St.-Lt.	43.84	8' CURB RETURN, VERANDA
10+78.58	14+32.49	2nd St.-Lt.	338.62	8' EAST SIDE
14+32.49	15+54.11(E)	2nd St.-Lt.	48.94	8' CURB RETURN, CANDEL.
15+96.51(E)	15+81.34	2nd St.-Lt.	48.67	8' CURB RETURN, CANDEL.
15+81.34	16+15.91	2nd St.-Lt.	35.26	8' CURB RETURN, CANDEL.
16+15.91	18+30.00	2nd St.-Lt.	199.29	8' EAST SIDE
18+30.00	19+05.00	2nd St.-Lt.	75.22	8' EAST SIDE, TAPER
9+59.60	9+73.94	2nd St.-Rt.	10.53	8' WEST SIDE
9+73.94	9+95.16	2nd St.-Rt.	40.08	8' CURB RETURN, VERANDA
10+27.55	10+54.18	2nd St.-Rt.	37.02	8' CURB RETURN, VERANDA
10+54.18	11+00.42	2nd St.-Rt.	42.39	8' WEST SIDE
11+00.42	12+30.00	2nd St.-Rt.	125.68	8' WEST SIDE
12+30.00	13+83.46	2nd St.-Rt.	145.56	8' WEST SIDE
13+83.46	14+19.84	2nd St.-Rt.	36.96	8' CURB RETURN, CANDEL.
14+19.84	13+78.70(E)	2nd St.-Rt.	50.23	8' CURB RETURN, CANDEL.
14+06.94(E)	15+50.58	2nd St.-Rt.	48.94	8' CURB RETURN, CANDEL.
15+50.58	18+00.00	2nd St.-Rt.	244.80	8' WEST SIDE
13+03.70(E)	13+78.70(E)	Candel.-Lt.	75.06	8' NORTH SIDE
15+54.11(E)	15+79.00(E)	Candel.-Lt.	20.94	8' NORTH SIDE
13+09.50(E)	14+06.94(E)	Candel.-Rt.	97.44	8' SOUTH SIDE
15+96.51(E)	16+11.41(E)	Candel.-Rt.	7.50	8' SOUTH SIDE
TOTAL			1772.97	

* BARRIER CURB TO BE TRANSITIONED TO GUTTER AT DRIVE PADS. PAYMENT TO BE
 MADE AS THOUGH BARRIER CURB CONTINUOUS ACROSS DRIVE PADS.
 NO PAYMENTS WILL BE MADE FOR CURB AND GUTTER ACROSS DROP INLETS.
 SEE SHEET 1-8 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

609060
 6" CONCRETE MOUNTABLE MEDIAN CURB AND GUTTER

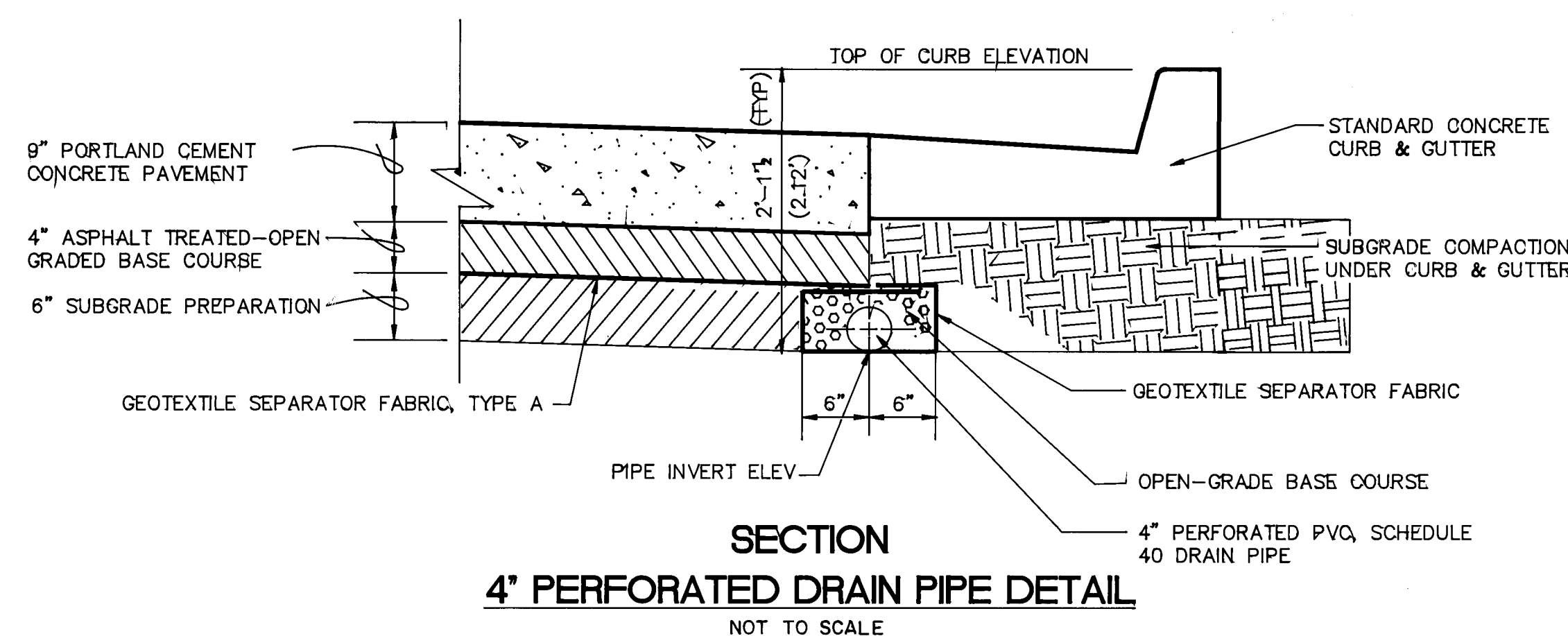
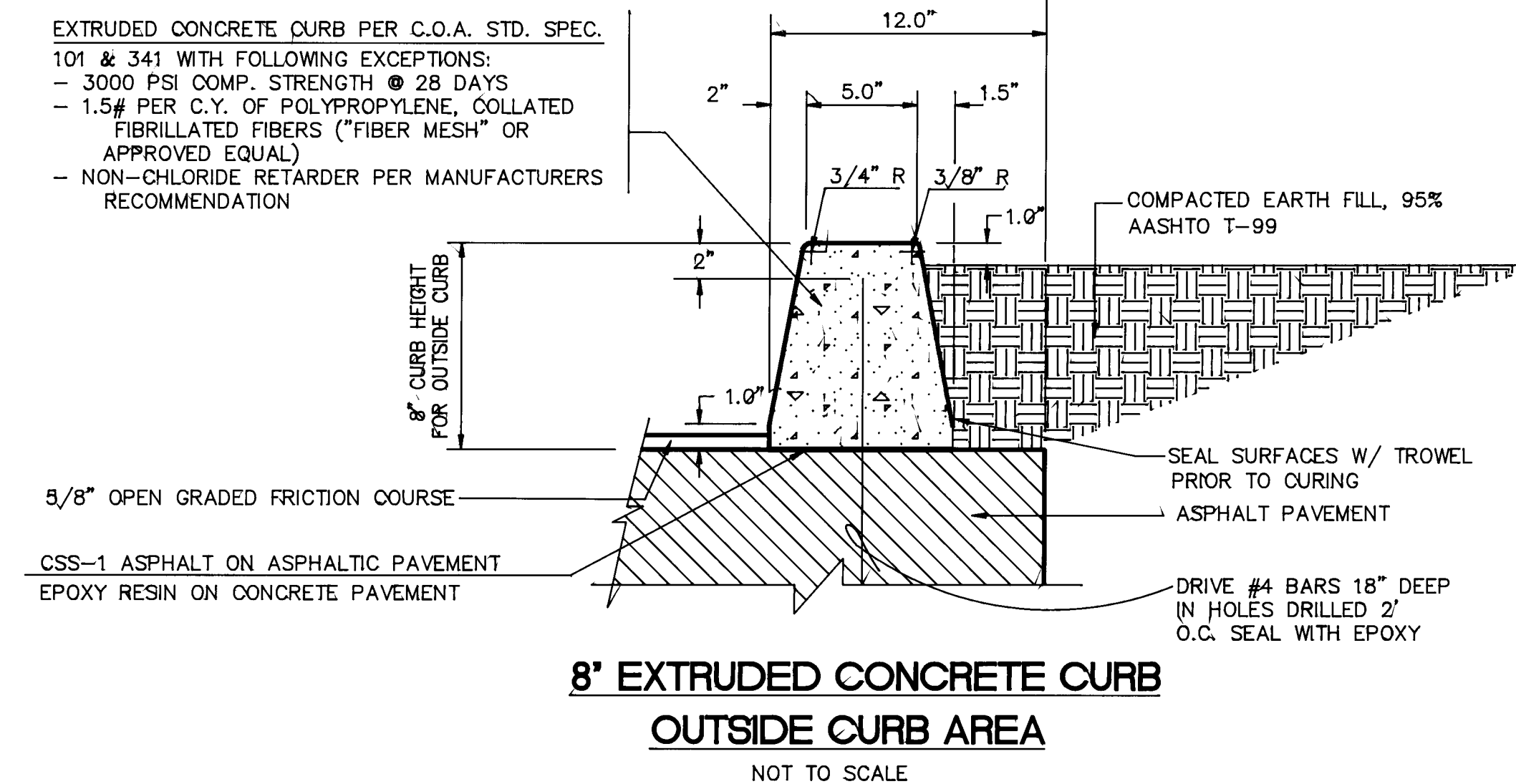
STATION TO STATION	LOC.	LIN.FT.	TYPE	DECRPTION
15+61(E)	16+00(E)	ISLAND	80.28	6' ISLAND - EAST LEG - CANDEL.
16+49.84(E)	17+83.12(E)	ISLAND	134.09	6' ISLAND - EAST LEG - CANDEL.
TOTAL			214.37	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR				FIELD NOTES			
WORK STAMPED BY	DATE			BY	DATE		
FIELD ACCEPTANCE BY	DATE						
FIELD DRAWINGS CORRECTED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: MISCELLANEOUS QUANTTTIES SECOND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		9-6-90	WATER		9-6-90
TRANSPORTATION		9-6-90	WASTE WATER		9-6-90
HYDROLOGY	NA				
PROJECT NO. M-4035(3) COA PROJ No. 3203		MAP NO. G-14		SHEET 2-6 OF 12/10/92	

26 3203.901592

RECORD DRAWING



- ### NOTES
1. INVERT OF NEW 4" PERFORATED DRAIN PIPE TO BE 2'-1 1/2" (2.12 FT) BELOW TOP OF NEW CURB. INVERT GRADE TO PARALLEL TOP OF CURB GRADE.
 2. PAYMENT FOR 4" PERFORATED DRAIN PIPE INSTALLATION TO BE MADE UNDER BID ITEM NO. 605004, AND INCLUDES PIPE, GEOTEXTILE FABRIC, OPEN GRADED BASE, CONNECTION TO NEW OR EXISTING INLET AND END CAPS.
 3. PIPE TO BE INSTALLED AT THE LIP OF NEW GUTTER UNLESS OTHERWISE SHOWN.
 4. SEE UTILITY PLAN & PROFILE SHEET FOR LOCATION AND LIMITS OF PVC PERFORATED DRAIN.

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		2-7	

				ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
						FIELD NOTES				CONTRACTOR	
						NO.		BY		DATE	
										WORK	
										STAMPED BY	
										DATE	
										ACCEPTANCE BY	
										DATE	
										FIELD	
										COLLECTION BY	
										DATE	
										DRAWINGS	
										CORRECTED BY	
										DATE	
										MICRO-FILM INFORMATION	
										RECORDED BY	
										DATE	
										NO.	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	MISCELLANEOUS DETAILS SECOND STREET / CANDELARIA ROAD
--------	--

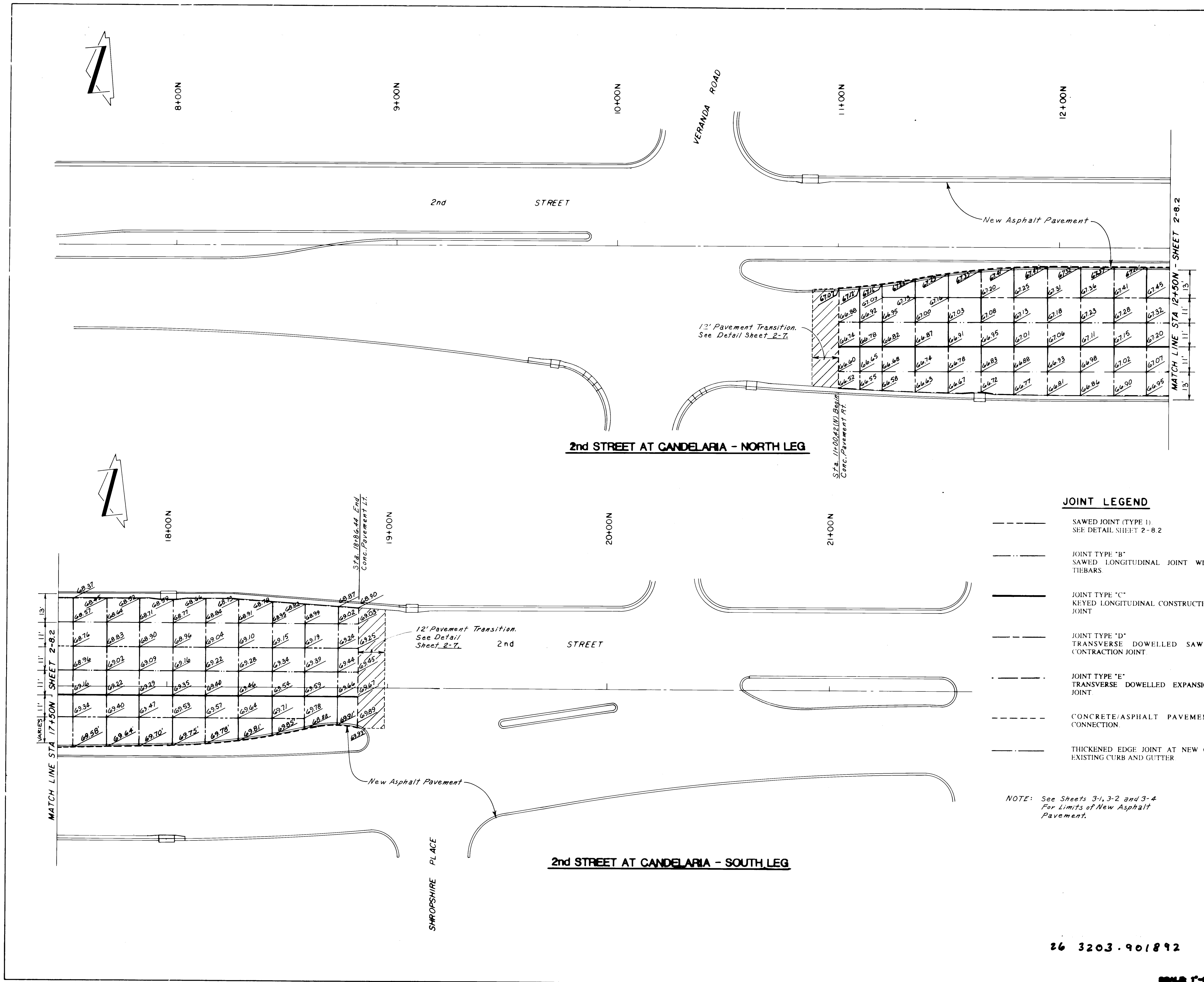
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-90	WATER	R.W. Kane	9-6-90
TRANSPORTATION	<i>[Signature]</i>	9-6-90	WASTE WATER	R.W. Kane	9-6-90
HYDROLOGY	NA				

PROJECT NO.	M-4Q35(3) COA PROJ No. 3203	MAP NO.	G-14	SHEET	2-7	OF	
-------------	--------------------------------	---------	------	-------	-----	----	--

RECORD DRAWING

12/10/95

Time: 9:39:41
Date: 7/11/1990
Drawing File: MISQCAN3
Directory: C:\A-EAD\85111\



NOTE: See Sheets 3-1, 3-2 and 3-4
For Limits of New Asphalt
Pavement.

JOINT LEGEND

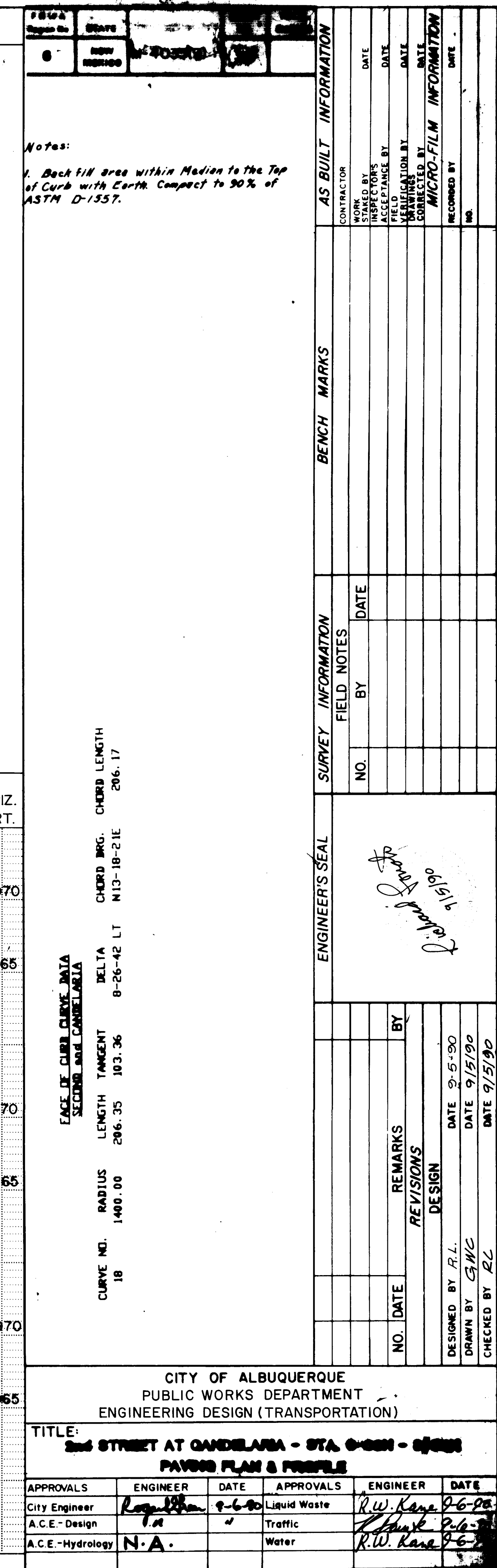
- SAWED JOINT (TYPE 1)
SEE DETAIL SHEET 2-8.2
- JOINT TYPE "B"
SAWED LONGITUDINAL JOINT WITH
TIEBARS
- JOINT TYPE "C"
KEYED LONGITUDINAL CONSTRUCTION
JOINT
- JOINT TYPE "D"
TRANSVERSE DOWELLED SAWED
CONSTRUCTION JOINT
- JOINT TYPE "E"
TRANSVERSE DOWELLED EXPANSION
JOINT
- CONCRETE/ASPHALT PAVEMENT
CONNECTION.
- THICKENED EDGE JOINT AT NEW OR
EXISTING CURB AND GUTTER

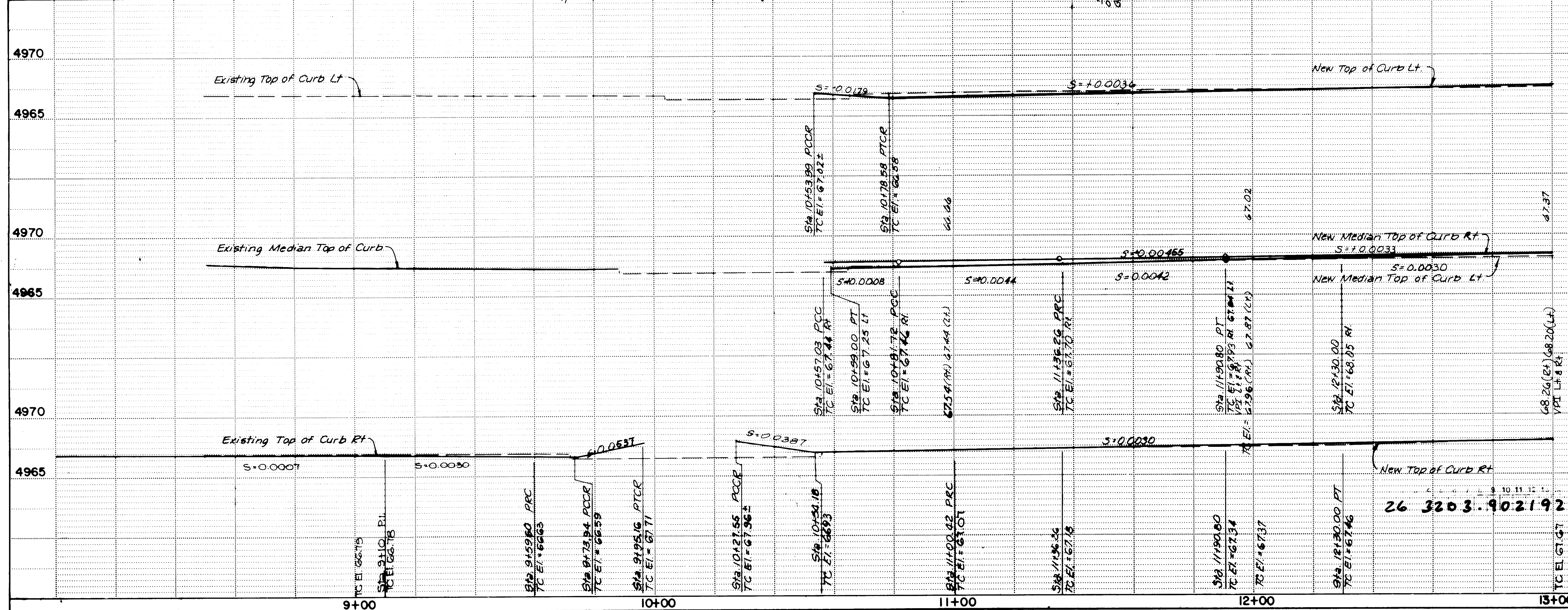
FHWA Project No.		STATE NEW MEXICO	SHEET NO. 2-9.2		TOTAL SHEETS	
CHANGE ORDER No. 2 8/22/91 REVISED 9/5/91						
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)						
TITLE: INTERSECTION GRADING & CONCRETE JOINT DETAILS SECOND STREET-NORTH/SOUTH LEGS						
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	
City Engineer			Liquid Waste			
A.C.E. Design			Traffic			
A.C.E. Hydrology			Water			
PROJECT NO. M-4035(4) C.O.A. No. 320391		MAP NO. F-14, G-14		SHEET 2-9.2		
CONTRACTOR		WORKS BY		DATE		
INSPECTOR'S		ACCEPTANCE BY		DATE		
DESIGNED BY		REVISIONS		DATE		
DRAWN BY		DESIGN		DATE		
CHECKED BY		DATE		DATE		

26 3203.901892

SCALE 1"=40'

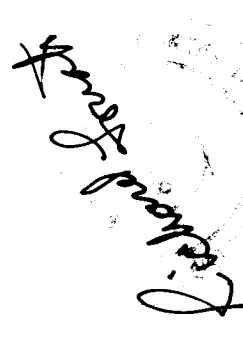
12/10/92

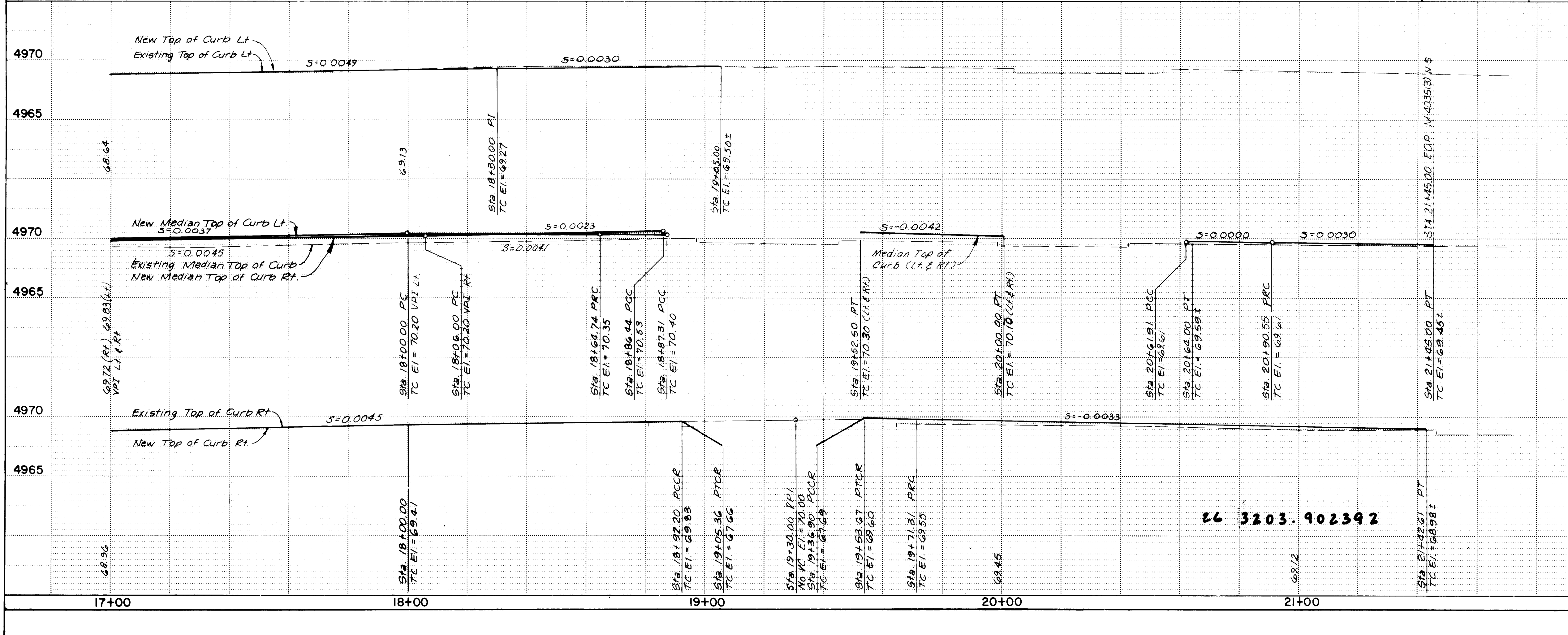
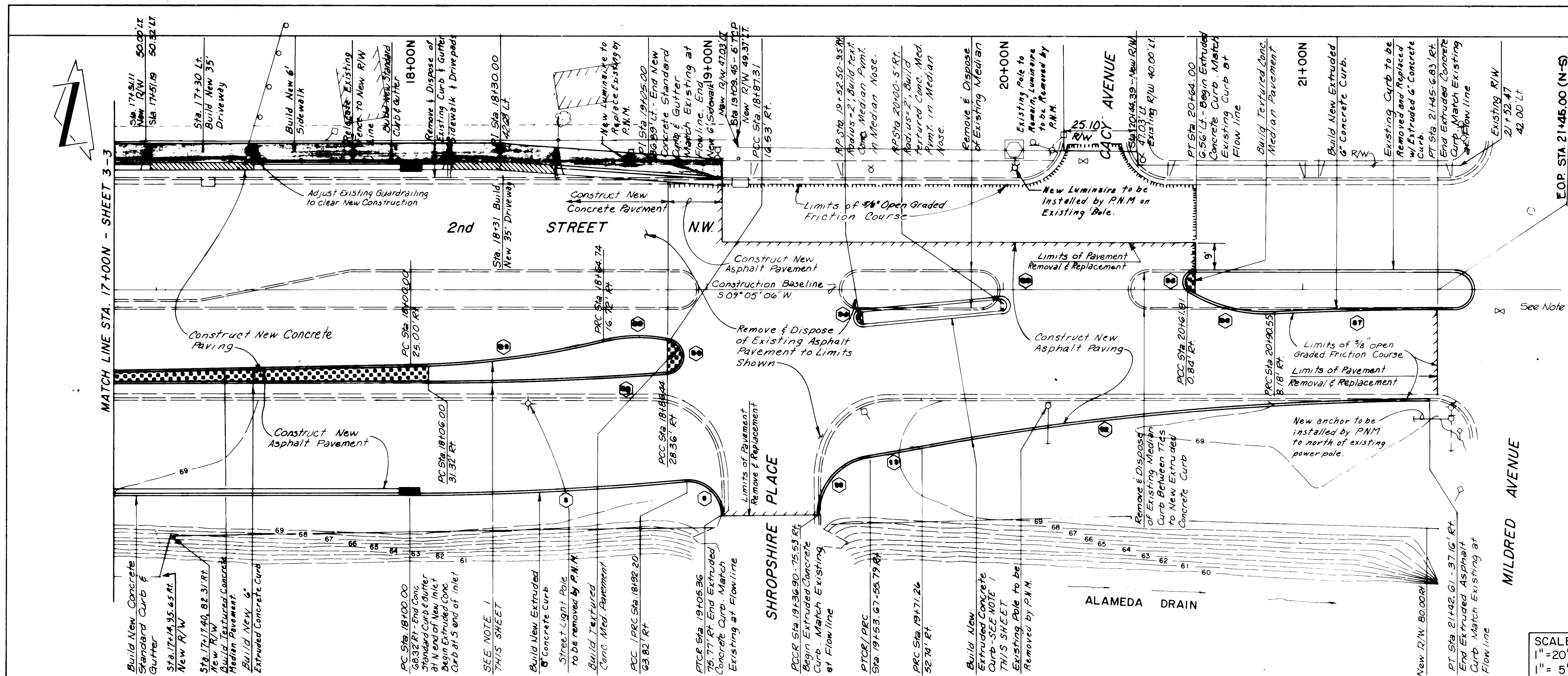




CURVE NO.	RADIUS	LENGTH	FACE OF CURVE DATA			CHORD BEG.	CHORD END.
			TANGENT	DELTA	CHORD BEG.		
1	25.00	43.64	34.85	100-00-00	LT	34.83	
2	25.00	43.64	34.85	100-00-00	LT	34.83	
3	2800.00	1291.53	54.41	1-53-47	RT	176.62	
4	1400.00	646.26	27.20	1-53-47	RT	88.31	
5	125.00	37.92	32.35	04-50-20	LT	46.33	
6	25.00	17.92	32.35	04-50-20	LT	33.73	
7	1400.00	206.35	13.56	8-25-42	LT	286.17	
8	25.00	43.64	34.85	10-20-31	LT	54.77	
9	300.00	54.93	27.50	10-20-31	RT	54.77	
10	300.00	54.93	27.50	10-20-31	RT	54.77	
11	50.00	25.82	13.21	29-35-31	RT	25.34	
12	50.00	25.82	13.21	29-35-31	RT	25.34	
13	4.00	10.50	15.14	59-24-49	RT	14.48	
14	4.00	10.50	15.14	59-24-49	RT	14.48	
15	25.00	40.00	7.24	0-35-13	LT	35.38	
16	25.00	40.00	25.82	91-51-13	LT	35.38	

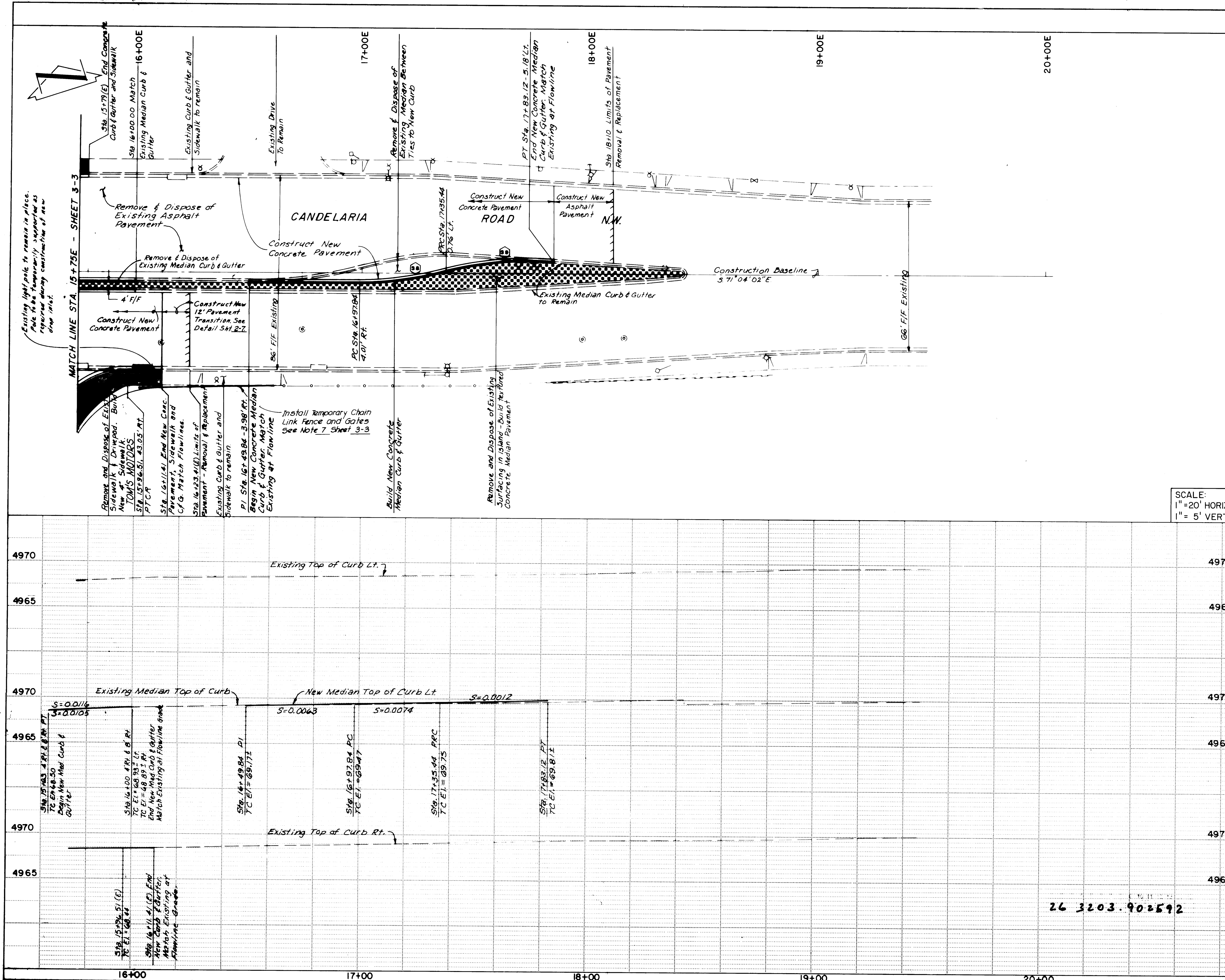
1. Backfill Area within Median to Top of Curb with Earth, Compact to 90% of ASTM D-1557.
2. See Sheet 2-1f 2-9 thru 2-11 for New Asphalt and Concrete Pavement, and Joint Locations for Concrete Pavement.
3. See Sheet 1-2 for New Lighting System Layout and Position of New Luminares on West Side of Second Street. Lighting on East Side of Second Street to be done by P.I.N.M.

PWSA Region 2a 6		DISTRICT NEW MEXICO 4035(3)		SHEET 3-2	
NOTES: 1. Backfill Area within Median to Top of Curb with Earth, Compact to 90% of ASTM D-1557. 2. See Sheet 2-1f 2-9 thru 2-11 for New Asphalt and Concrete Pavement and Joint Locations for Concrete Pavement. 3. See Sheet T-2 for New Lighting System Layout and Position of New Luminaires on West Side of Second Street. Lighting on East Side of Second Street to be done by P.N.M.					
AS BUILT INFORMATION CONTRACTOR WORK ORDER NO. BY INSPECTOR'S ACCEPTANCE BY DATE FIELD VERIFICATION BY DATE DRAWINGS CORRECTED BY DATE MICRO-FILM INFORMATION RECORDED BY DATE					
BENCH MARKS					
SURVEY INFORMATION FIELD NOTES NO. BY DATE					
ENGINEER'S SEAL 					
REMARKS NO. DATE					
REVISIONS DESIGNED BY R.W. DATE 2-5-90 DRAWN BY G.W. DATE 9/5/90 CHECKED BY RL DATE 9/5/90					
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)					
TITLE: 2ND STREET AT Candelaria - STA. 4035 - 10+00 PAVED PLAN & PROFILES					
APPROVALS City Engineer A.C.E.-Design A.C.E.-Hydrology	ENGINEER Regulation A N.A.	DATE 7-6-90 ✓	APPROVALS Liquid Waste Traffic Water	ENGINEER R.W. Kane R. W. Kane R.W. Kane	DATE 2-5-90 9/5/90 9/5/90
PROJECT NO. 4035(3) C.O.A. 3203	MAP NO. G-14		SHEET 3-2 OF		



FHWA Region No. 6		STATE NEW MEXICO	SHEET NO. 3-4		TOTAL SHEETS 3-4
NOTES: 1. Backfill Area Within Median to Top of Curb with Earth, Compact to Minimum 90% of ASTM D-1557. 2. See Sheet T-2 for New Lighting System Layout and Position of New Luminaire. 3. Existing Median Curb and Gutter between Mildred and Station 24+00 (N) to be removed and replaced in same position to accommodate traffic control.					
AS BUILT INFORMATION CONTRACTOR WORK DATE INSPECTOR DATE ACCEPTANCE BY DATE VERIFICATION BY DATE DRAWING NO. DATE MICRO-FILM INFORMATION RECORDED BY DATE			SURVEY INFORMATION FIELD NOTES NO. BY DATE		
ENGINEER'S SEAL [Signature] 9/15/90			REVISIONS NO. DATE 1 9/5/90 2 9/15/90 3 9/15/90		
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION) TITLE: 2nd STREET AT Candelaria - STA. 17+00N - 22+00N PAVING PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[Signature]	9-6-90	Liquid Waste	[Signature]	9-6-90
A.C.E. Design	"	"	Traffic	[Signature]	9-6-90
A.C.E. Hydrology	N.A.		Water	[Signature]	9-6-90
PROJECT NO.	4035(3)	MAP NO.	G-14	SHEET OF	3-4
C.O.A. 3203				12/10/90	

RECORD DRAWING



SCALE:
1" = 20' HORIZ.
1" = 5' VERT.

M-4035(3)

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
REVISIONS			FIELD NOTES		NO.		CONTRACTOR	
			NO.	BY			NO.	DATE
NO. DATE			NO. DATE		NO. DATE		NO. DATE	
DESIGNED BY R.L.			DESIGNED BY R.L.		DESIGNED BY R.L.		DESIGNED BY R.L.	
DRAWN BY G.W.			DRAWN BY G.W.		DRAWN BY G.W.		DRAWN BY G.W.	
CHECKED BY R.L.			CHECKED BY R.L.		CHECKED BY R.L.		CHECKED BY R.L.	
DATE 9/15/90			DATE 9/15/90		DATE 9/15/90		DATE 9/15/90	
DATE 9/15/90			DATE 9/15/90		DATE 9/15/90		DATE 9/15/90	

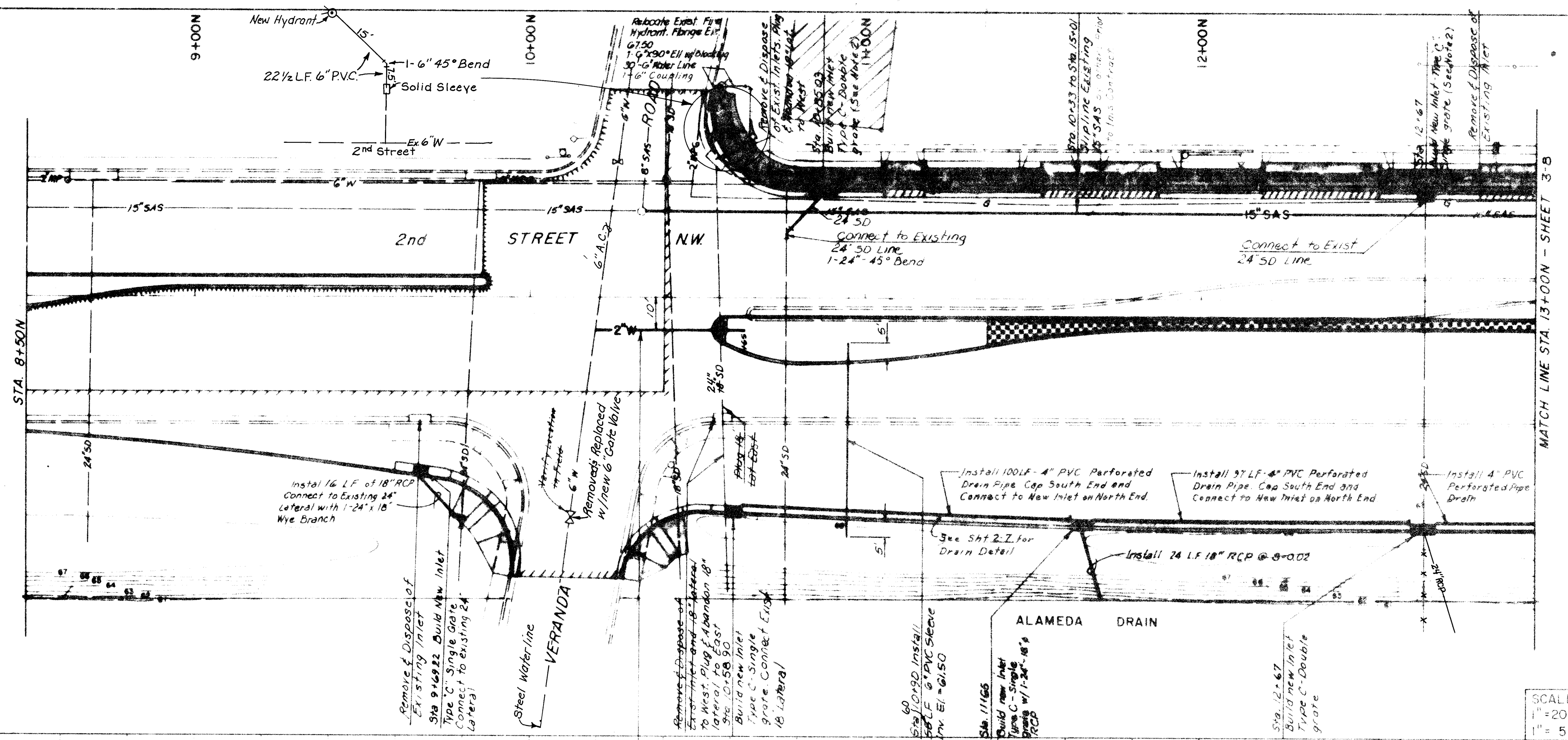
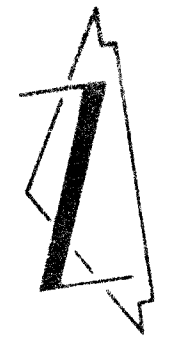
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DESIGN (TRANSPORTATION)

TITLE: CANELARIA AT 2nd STREET STA. 15+75E-20+00E
PAVING PLAN & PROFILE

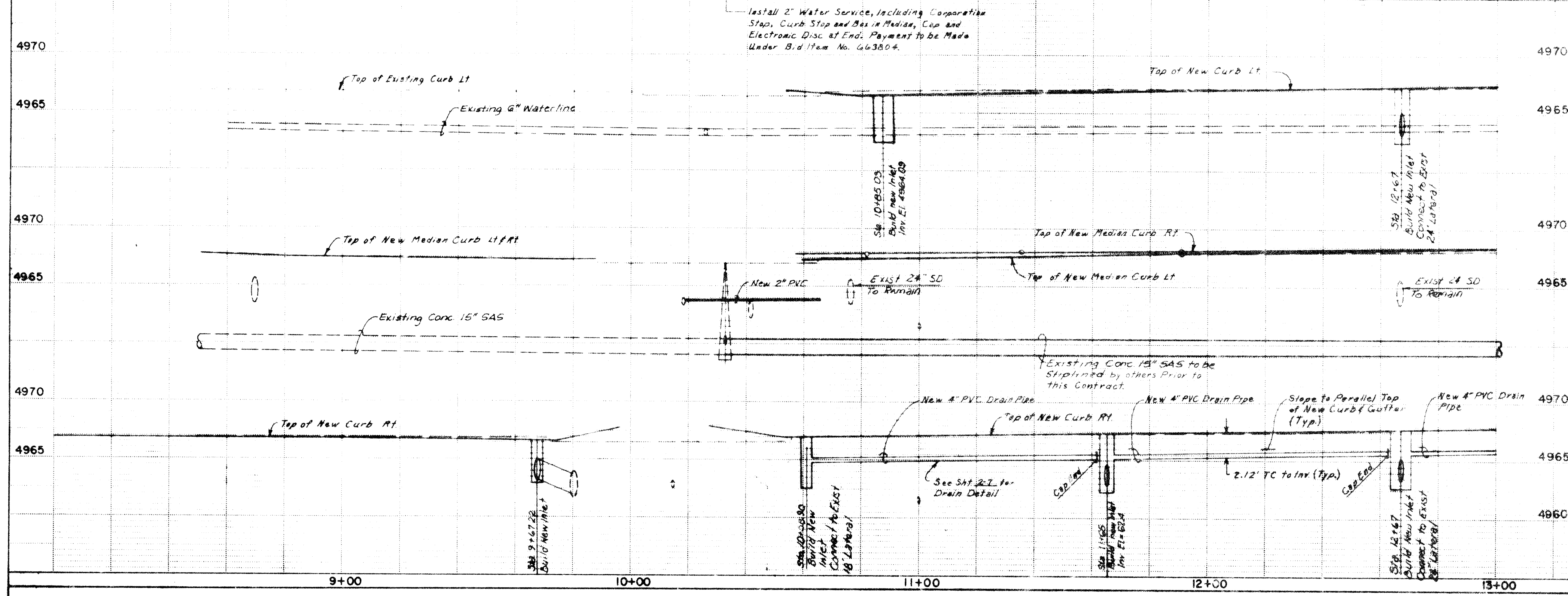
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	9-6-90	Liquid Waste	<i>[Signature]</i>	9-6-90
A.C.E.-Design	"	"	Traffic	<i>[Signature]</i>	9-6-90
A.C.E.-Hydrology	NA	"	Water	<i>[Signature]</i>	9-6-90

PROJECT NO.	4035(3) C.O.A. 3203	MAP NO.	G-14	SHEET	OF
				3-6	

RECORD DRAWING



SCALE
1" = 20' HORIZ
1" = 5' VERT



SHEET		STATE		PROJECT	
6	NEW MEXICO	M-4035(3)			

NOTES:
1. Contractor to verify exact location of existing waterline.
2. Special care to be taken during excavation for drop inlets at Sta. 10+85.03 & Sta. 12+67 to avoid damage to existing gas line. If conflict with existing gas line occurs, gas line to be rerouted by others. Contractor to coordinate his work with Gas Co. of N.M.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE

DESIGNED BY: R.L. GARCIA
DRAWN BY: G.W. LANE
CHECKED BY: R.L. GARCIA

DATE: 9-5-90
DATE: 9-5-90
DATE: 9-5-90

REVISIONS
NO. DATE BY

26 3203.902692

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DESIGN (TRANSPORTATION)

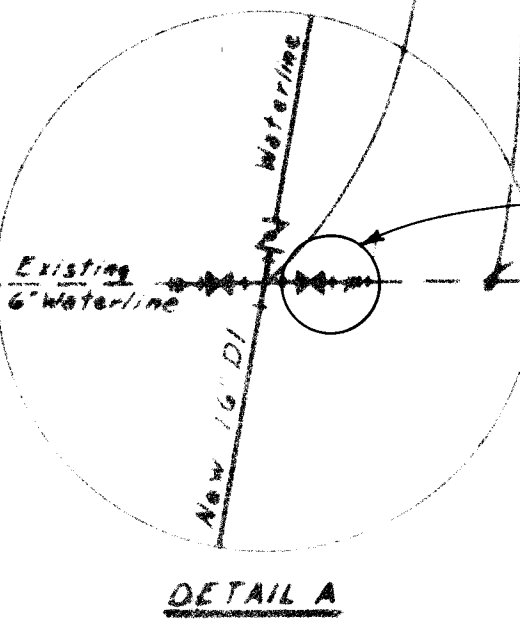
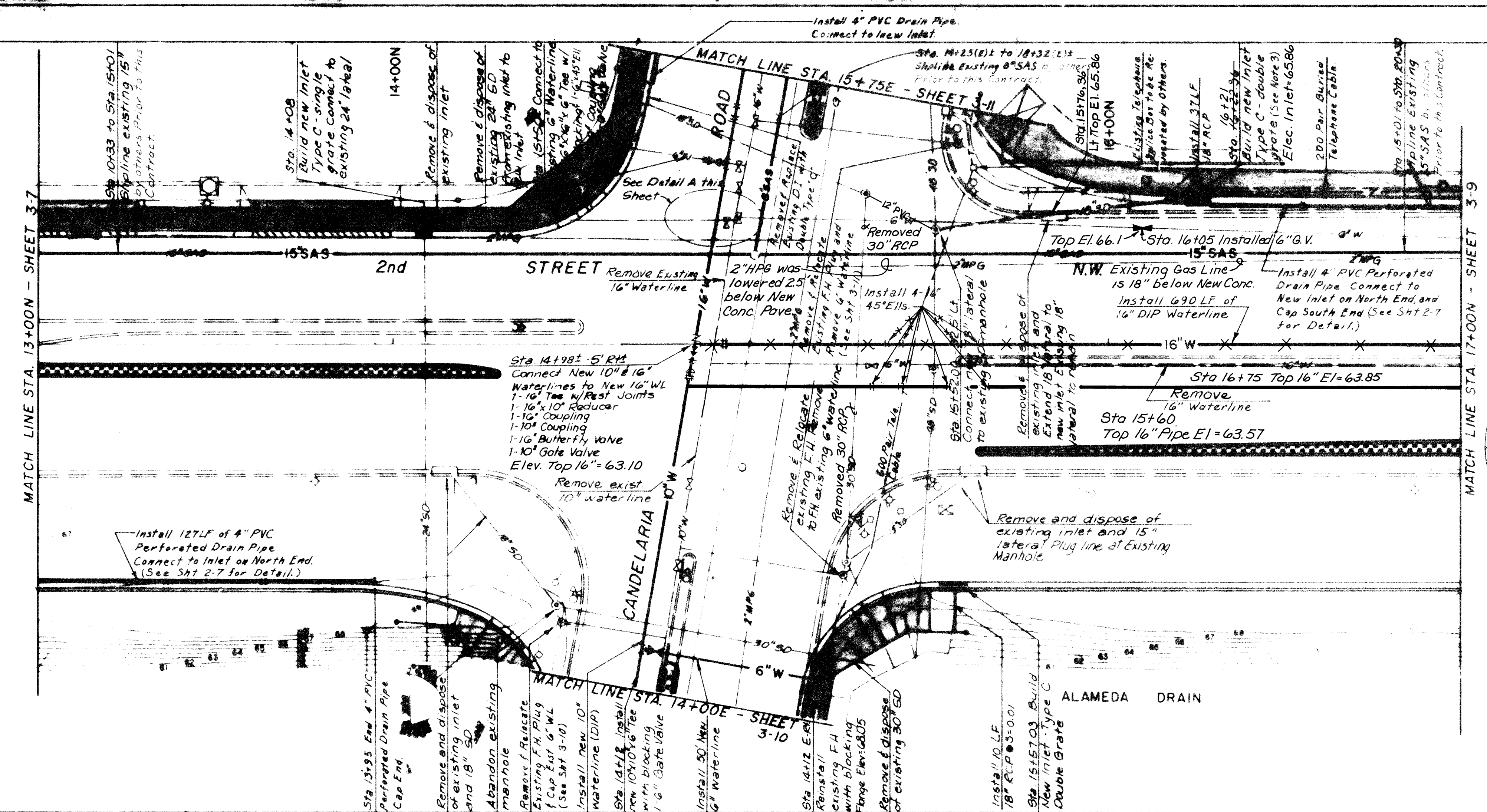
TITLE: 2ND STREET AT CANDELARIA CROSSING - 18-19-90
UTILITY PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	Royce Dean	7-6-90	Liquid Waste	R.W. Lane	9-5-90
A.C.E. - Design	LI	-	Traffic	R.W. Lane	9-5-90
A.C.E. - Hydrology	Karl H. Taylor	9-6-90	Water	R.W. Lane	9-5-90

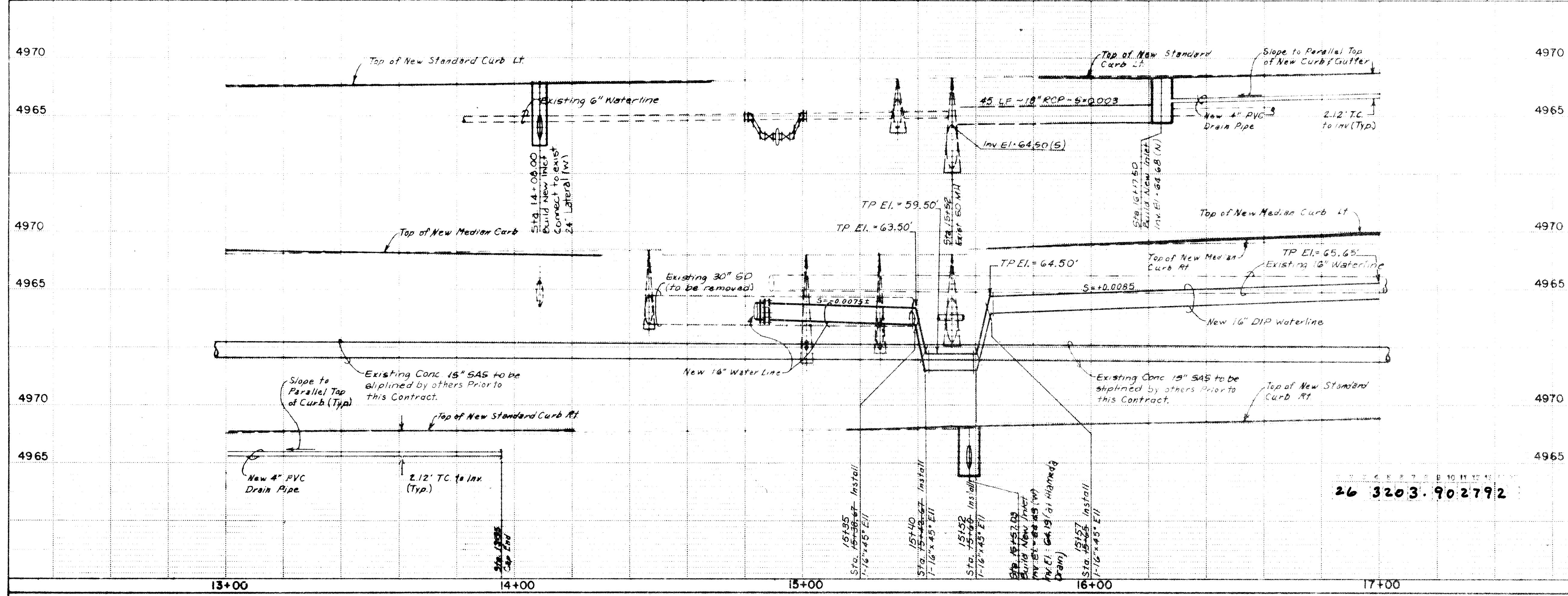
PROJECT NO. 4035(3)
C.O.A. 3203

MAP NO. 6-14

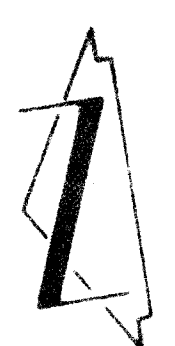
SHEET 3 OF 3



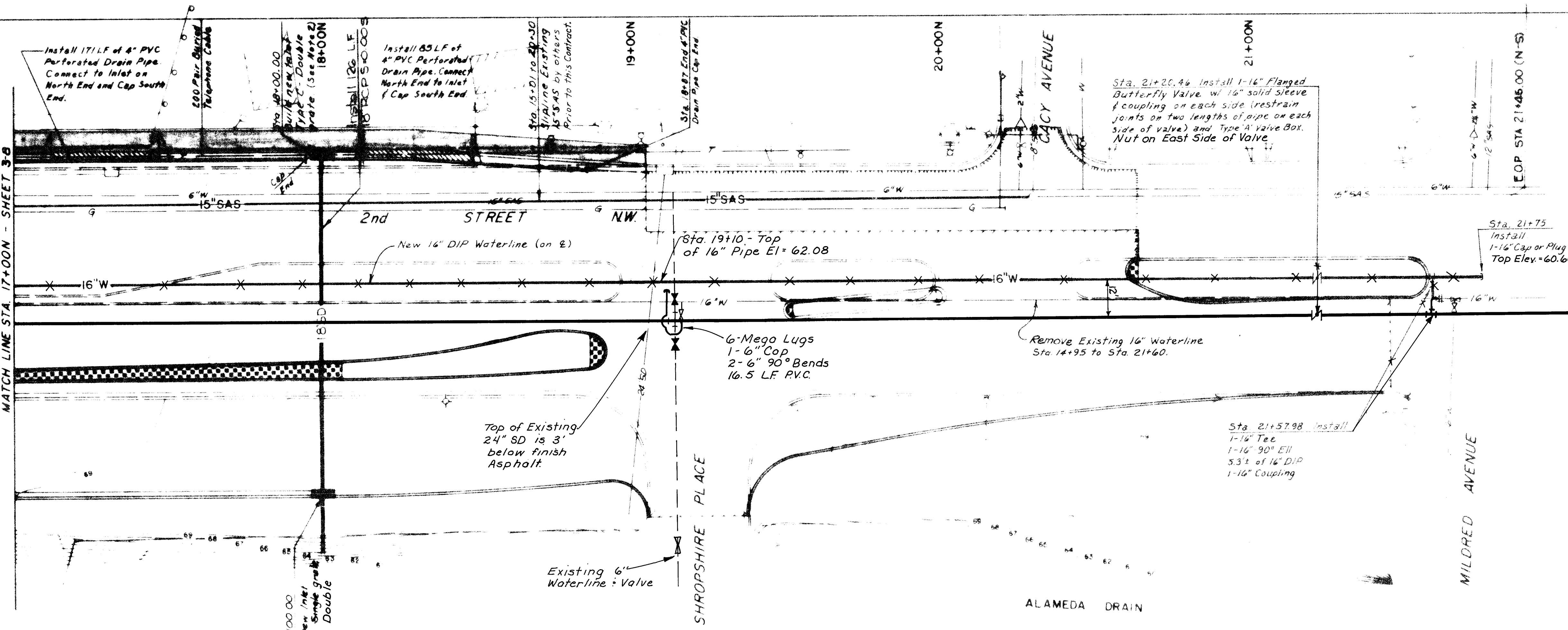
SCALE:
1" = 20' HORIZ.
1" = 5' VERT.



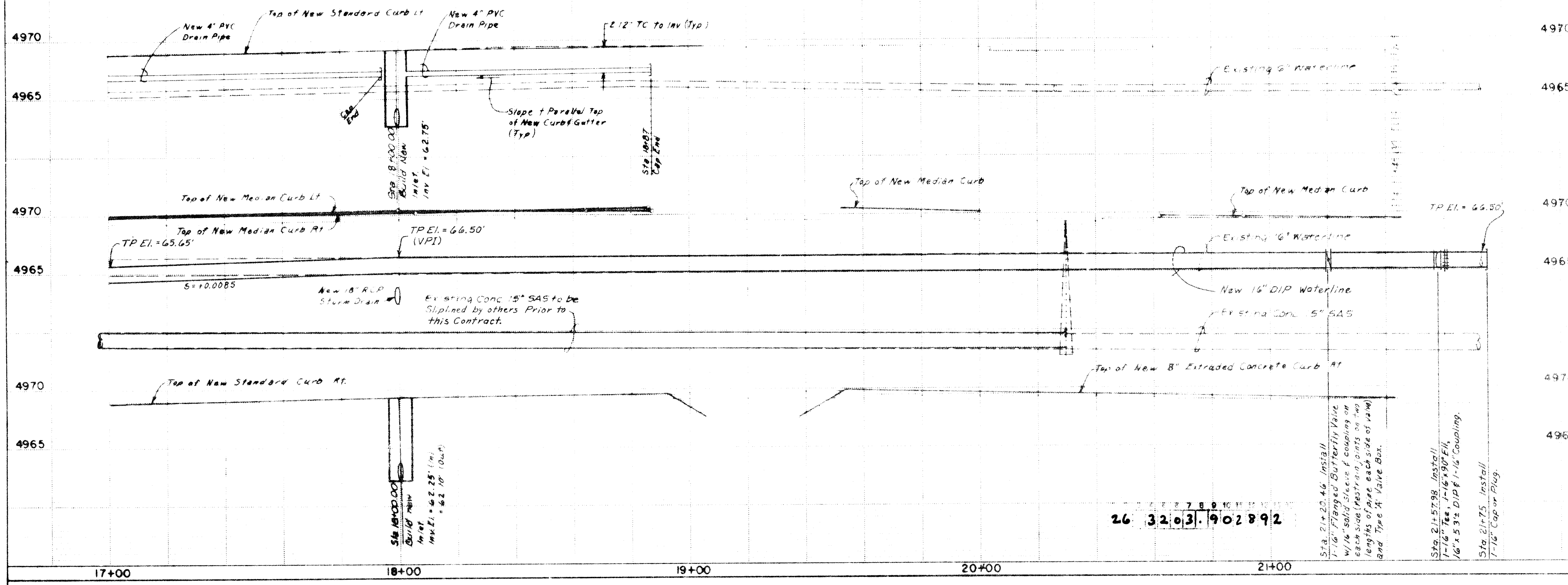
PRWA Region No. 6 STATE NEW MEXICO PROJECT M-4035(3)		DATE 12/1/90	
NOTES: 1. Connect existing 6" waterline to new 16" waterline. 2. Contractor to verify exact location of existing waterline. 3. Special care to be taken by Contractor during excavation for Drap Inlet at Sta 16+23.36 to avoid damage to existing direct bury telephone cable. 4. All new waterline fittings to be ductile iron with restrained joints, unless otherwise noted. Note: Proposed 16" DIP Waterline was moved to the West Side of proposed median 16" waterline, was installed west of existing storm MH @ Sta. 15+45' 8/24/91. New waterline location was installed 12' west of Plan location.		AS BUILT INFORMATION CONTRACTOR DATE INSPECTOR DATE ACCEPTANCE BY DATE VERIFICATION BY DATE DRAWN BY DATE CHECKED BY DATE	
SURVEY INFORMATION NO. BY DATE		ENGINEER'S SEAL [Signature] DATE 9/5/90	
REVISIONS NO. DATE BY		DESIGN DATE 9/5/90 DRAWN BY GWC CHECKED BY RL	
ADDENDUM NO. 1 2/1/91			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)			
TITLE 2nd/CANDELARIA INTERSECTION 13+00N-17+00E UTILITY PLAN & PROFILE			
APPROVALS City Engineer ACE-Design ACE-Hydrology	ENGINEER Rogel Rios 12/1/90 12/1/90 12/1/90	DATE 9-6-90 9/6	APPROVALS Liquor Waste Traffic Water R.W. Kane R.W. Kane
PROJECT NO. 4035(3) C.O.A. 3203	MAP NO. G-14	SHEET 3-6 12/1/90	



MATCH LINE STA. 17+00N - SHEET 3-B



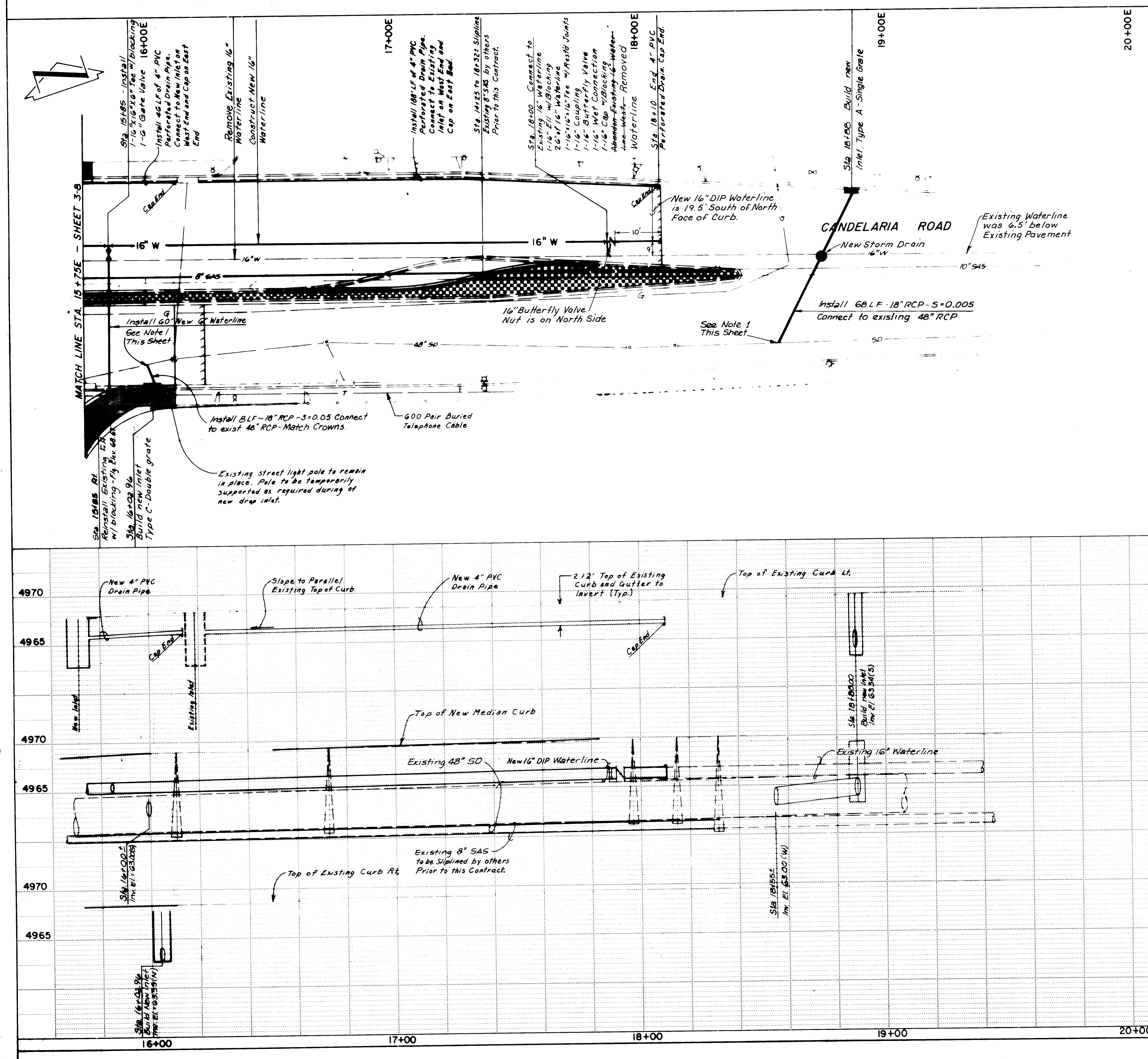
SCALE
1" = 20' HORIZ
1" = 5' VERT



26 3203 902892

PROJECT		STATE		SHEET	
NEW MEXICO		M-4035(3)		3-B	
NOTES:					
1. Contractor to verify exact location of existing waterline.					
2. Special care to be taken by the Contractor during excavation for drop inlet at Sta. 18+00 to avoid damage to existing direct bury telephone cable. Care to be taken during excavation for 16" lateral line to avoid damage to existing waterlines and gas line where they cross.					
3. All new waterline fittings to be ductile iron with restrained joints, unless otherwise noted.					
AS BUILT INFORMATION					
CONTRACTOR	DATE	WORK BY	DATE	FIELD NOTES	DATE
ENGINEER'S SEAL					
[Signature]					
REVISIONS					
NO.	DATE	REMARKS	BY	DATE	DATE
1	9-6-90	DESIGN	RL	9-6-90	9-6-90
2	9-15-90	DESIGN	RL	9-15-90	9-15-90
ADDENDUM NO. 1 2/1/91					
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)					
TITLE: 2nd STREET AT CANDELARIA 17+00N-22+00N UTILITY PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	R. J. Kane	9-6-90	Liquid Waste	R. J. Kane	9-6-90
A.C.E. - Design	RL	9-6-90	Traffic	RL	9-6-90
A.C.E. - Hydrology	RL	9-6-90	Water	RL	9-6-90
PROJECT NO.	4035(3)	MAP NO.	G-14	SHEET	OF
	C.O.A. 3203			3-B.1	
12/10/92					

RECORD DRAWING



SCALE:
1"=20' HORIZ.
1"= 5' VERT.

PROJECT		STATE		COUNTY	
6		NEW MEXICO		M-4035(3)	
NOTES: 1. 18" lateral shall be cut off flush with inside of existing 48" RCP. Grout inside flush with epoxy grout. Provide min. 6" thick x 12" wide concrete collar around connection outside. 2. Contractor to verify exact location of existing waterline. 3. All new waterline fittings to be ductile iron with restrained joints, unless otherwise noted.					
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION	
CONTRACTOR		FIELD NOTES		ENGINEER'S SEAL	
WORKED BY		NO.		REMARKS	
DATE		BY		REVISIONS	
DATE		DATE		DESIGN	
DATE		DATE		DESIGNED BY A.L.	
DATE		DATE		DRAWN BY GWC	
DATE		DATE		CHECKED BY RL	
26 3203.903092					
ADDENDUM NO.1 2/1/91					
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)					
TITLE: CANDELARIA AT 2nd STREET 16+75E-20+00E UTILITY PLAN & PROFILE					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	R.W. Kane	9-6-90	Liquid Waste	R.W. Kane	9-6-90
A.C.E. Design	"	"	Traffic	"	"
A.C.E. Hydrology	"	"	Water	"	"
PROJECT NO.		MAP NO.		SHEET	
4035(3) C.O.A. 3203		G-14		OF 3-1-1	

RECORD DRAWING

Phase I

When traffic control is in place: Remove median paving and curb and gutter between Candelaria and Mildred. Install new 16" ductile iron pipe waterline between Sta. 15+75(N) and Sta. 21+75(N). Temporarily install a 16"-90° ell at Sta. 15+75(N) on the new waterline.

Close valves:

574 located between 1st St. & 2nd St. on Menaul Blvd.
 N&M located in the intersection of 2nd St. & Menaul Blvd.
 L located west of Woodland and 3rd St.
 K located east of Woodland and 1st St.
 H&J located at 2nd St. and Poblana St. (two valves)
 F&G located at 2nd St. and Phoenix St. (two valves)
 D&E located at 2nd St. and Clairmont St. (two valves)
 1182 at 2nd St. and Mildred and
 1131 at 2nd St. and Candelaria Road.

Cut the existing 16" waterline at Sta. 15+75+, temporarily install a 16"-90° ell and a 16" coupling connecting the old and new waterline. Cut the existing 16" waterline at Sta. 21+58+ and complete installation of 16"-90° ell and 16" coupling between the old and new waterlines.

Close valves #1081 (west of intersection of 2nd St. and Candelaria Road) and #1082, #1083 and #1084 (in the intersection). Open valve #1131.

Perform necessary testing and disinfecting using the FH #378 at the southwest corner of the intersection. Place the new line in service by opening all valves listed above. Abandon the old 16" waterline in place.

Phase II

When traffic control is in place: Install new 6" waterline to location of fire hydrants (FH #378 & FH #379) after relocation (Sta. 14+12(E) and 15+85 (E)) within work zone. Temporarily cap or plug ends.

Phase III

When traffic control is in place: Construct new 10" waterline from Sta. 12+00(E) to 14+80(E) and new 16" waterline Sta. 15+35 to 18+10 and temporarily cap or plug all open ends.

Complete fire hydrant waterlines started in Phase II Sta. 14+12(E) and 15+85(E) by installing new 10"x10"x6" and new 16"x16"x6" tees, 2 new 6" gate valves and new 6" pipes. At st. 13+75(E) install new 10"x10"x6" tee, new 6" gate valve and new 6" pipe. Temporarily cap and plug end.

At Sta. 15+50(E), FH #369, install temporary blocking around the pipe on the north side of the existing valve or otherwise restrain the valve. When the blocking has set, close the existing 6" valve, release pressure at the fire hydrant, remove the required section of existing 6" pipe, cap or plug the valve and install temporary blocking. Install new 16"x16"x6"tee, new 6"-45° ell, new 6" gate valve and connect to existing 6" fire hydrant supply line with a new 6" coupling. Close all new valves. (One fire hydrant, FH #369, is out of service at this time).

Phase IV

When traffic control is in place:

Step 1

Complete installation of new 16" pipe, new 16" butterfly valve, new 16"x16" cross, 2 new 6"-45° ells at Sta. 15+35(E)+, new 16" pipe, new 16" butterfly valve, new 16" tee (stub south as far as possible and temporary cap or plug and restrain), new 10"-16" reducer, new 10" GV, new 10"-45° ell, new 10" pipe to new 10" waterline at Sta. 14+80(E)+.

Step 2

Close existing valves 992, 1031, 1041, 1084, 1131, 1181, 1183 and "C". Relieve pressure with FH #359 at the corner of Second Street and Veranda Road. Remove existing 6" valves 1082 and 1083 from cross on existing 16" waterline at Sta. 15+35(E)+. Plug or cap both 6" branches of existing cross. Temporarily restrain plugs or caps.

Complete installation of 2 new 6" pipes, 2 new 6"-45° ells, 2 new 6" GV's, 2 new 6" pipes and 2 new 6" couplings to existing 6" pipes.

When all connections are completed, close existing valves A & B and new valves 5 & 8. Then open new valves 6 and 7. Perform necessary testing and disinfecting of existing of 16" waterline utilizing FH #379 and existing valves B and C. Test and disinfect existing 6" waterline utilizing FH #359 at the corner of Second Street and Veranda Road and existing valves 1031 and 1183.

When the necessary testing and disinfecting are completed, open existing valves 992, 1031, 1041, 1084, 1131, 1181, 1183, A, B and C. New valves 5 and 8 are to remain CLOSED and new valves 6 and 7 are to remain OPEN. (FH #369 is still out of service).

Phase V

When traffic control is in place:

Step 1

Close existing valves A, B, C and new valve 12. Relocate FH #379 at Sta. 15+62(E) to Sta. 15+85(E). Complete installation at Sta. 14+98(E)+. Remove 2 temporary 16"-90° ells and install new 16" pipe and new 16" coupling to new 16" waterline. Complete installation at Sta. 17+90(E) of new 16" pipe, new 16"-90° ell, and new 16" coupling to existing 16" waterline.

When the connections are completed, close new valves 4, 6, 7 and 11, then open new valves 5, 8, 9 and 10. Perform necessary testing and disinfecting of new 16" waterline utilizing FH #369 and existing valve B and new valves 6, 7 and 12. When testing and disinfecting are completed, open new valves 5, 6, 7, 8, 9, 10 and 12 and open existing valves A and B. New valve 4 and existing valve C must remain CLOSED. (All FH's are in service at this time).

Step 2

Close existing valves 1072 and 1073; new valve 4 to remain closed. Relocate FH #378 at Sta. 14+00(E)+ to Sta. 14+12(E) and FH #368 at Sta. 14+15+ to Sta. 13+75(E).

Complete installation at Sta. 12+20 of new 10"-90° ell, new 10" pipe and new 10" coupling to existing 10" waterline.

When the connection is completed, close new valve 1 and open new valves 2 and 3. Perform necessary testing and disinfecting of new 10" waterline using FH #368 (relocated) and existing valve 1072 and new valve 4. When necessary testing and disinfecting are completed, place new water line in service by opening existing valves 1072 and 1073 and new valve 4. (All FH's are in service at this time.)

Step 3

Close existing valves 992, 1031 and 1041 and new valve 6. Relocate FH #359 at the corner of Second Street and Veranda Road. When the connections are completed, perform necessary testing and disinfecting using the FH and valve 992. When necessary testing and disinfecting are completed, open existing valve 992, 1031 and 1041 and new valve 6.

NOTE:

See General Conditions Section 18-Utilities, of the City of Albuquerque Standard Specifications for Public Works Construction for water shut-off and turn-on procedures.

Contact City of Albuquerque Water Systems Division - 857-8200 - a minimum of three (3) working days prior to execution of the Valve Shut-off Plan. Only Water System Personnel have authority to operate valves.

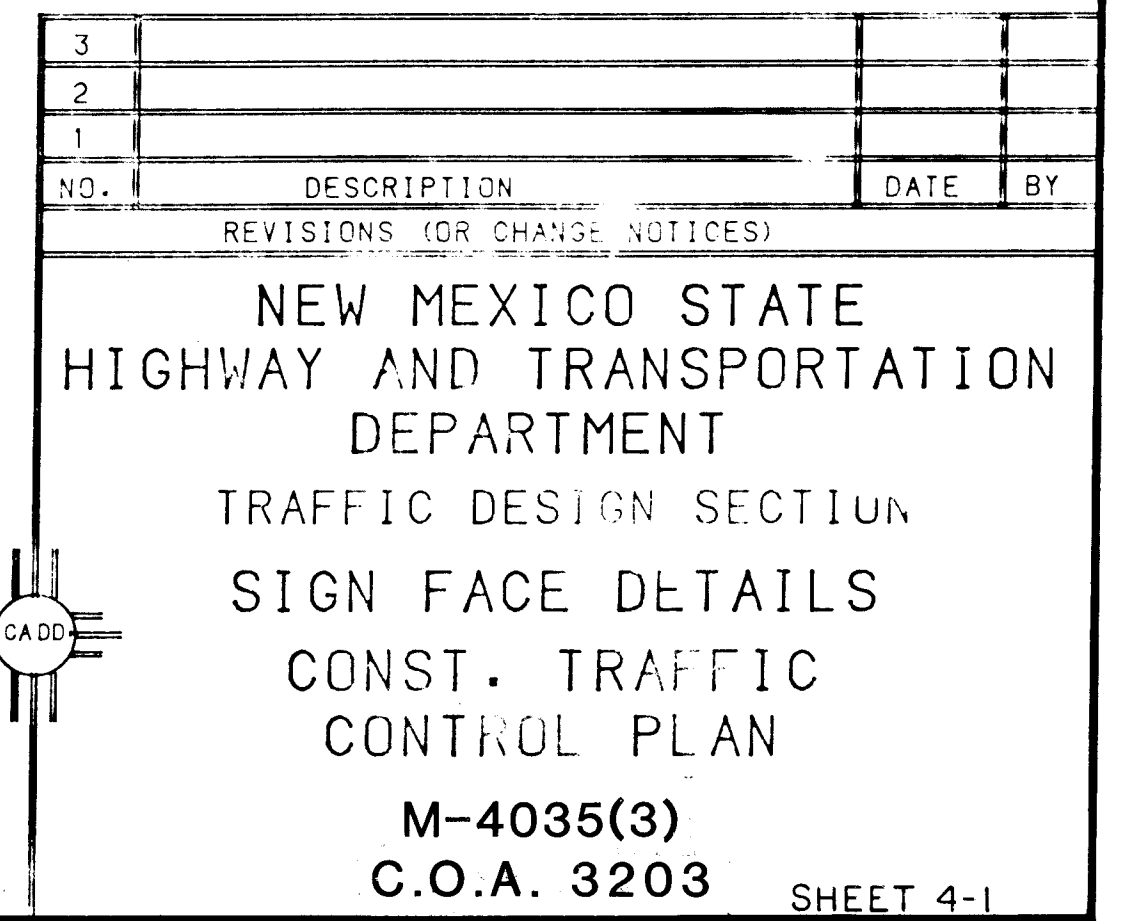
Scale: 1"=20'

F H W A Region No		STATE		SHEET NO		TOTAL SHEETS							
6		NEW MEXICO		M-4035(3)		3-12							
						AS BUILT INFORMATION		CONTRACTOR NAME STAKED BY INSPECTOR'S DATE APPROVED BY FIELD VERIFICATION BY DATE REMARKS CORRECTED BY DATE MICRO-FILM INFORMATION RECORDED BY DATE NO.					
						BENCH MARKS							
						SURVEY INFORMATION		FIELD NOTES BY DATE					
						ENGINEER'S SEAL		NO.					
						REVISIONS		BY					
						DESIGNED BY R.L.		DATE 9-5-90					
						DRAWN BY J.W.		DATE 9/5/90					
						CHECKED BY RL		DATE 9/5/90					
						CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)							
						TITLE: WATER SHUTOFF PLAN							
APPROVALS		ENGINEER		DATE		APPROVALS		ENGINEER		DATE			
DRC CHAIRMAN		Rogel Ben		9-6-90		WATER		R.W. Kane		9-6-80			
TRANSPORTATION		P. Ben		9-6-80		WASTE WATER		R.W. Kane		9-6-90			
HYDROLOGY		NA											
PROJECT NO.		M-4035(3) C.O.A. 3203		MAP NO.		G-14		SHEET		OF			
								3-12					

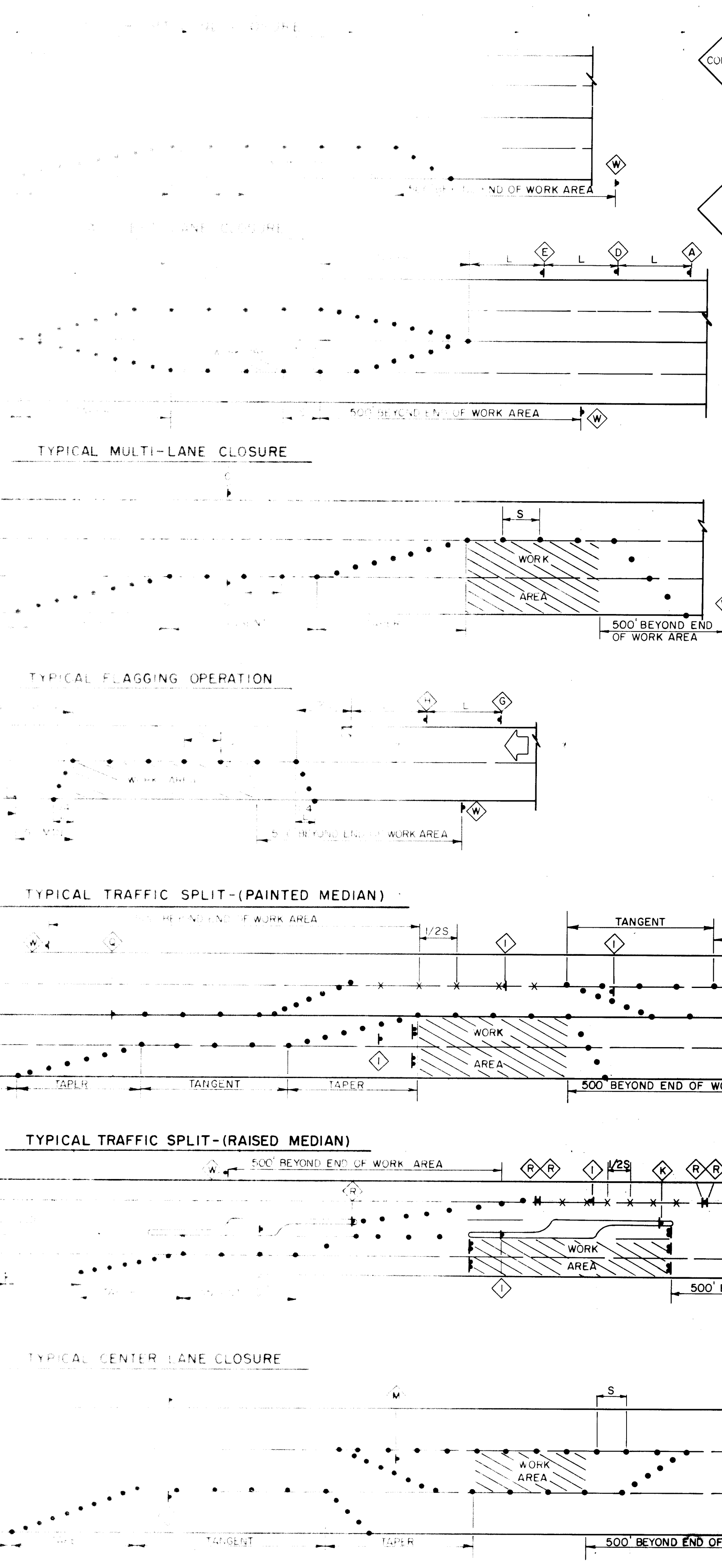
RECORD DRAWING

12/10/0

* - NOT ALL SIGNS UTILIZED IN
THESE PLANS



RECORD DRAWING



LEGEND

• ADVANCE WARNING SIGN
 • WORK AREA SIGN
 • ROAD CLOSED AHEAD
 • ROAD CLOSED 500'
 • TAPER LENGTH—SEE CHART
 • TAPER LENGTH—EQUAL TO THE TAPER LENGTH FOR A GIVEN SPEED

NOTES

- 1) ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHEN EVER MEDIANS ARE PRESENT.
- 2) TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOUR.
- 3) TYPICAL LANE CLOSURES SHOWN ON THIS SHEET ARE TO BE USED DURING PHASE III WHICH IS PLACEMENT OF OPEN GRADED FRICTION COURSE.

ROAD CLOSURE SIGNS:

- ROAD CONSTRUCTION AHEAD (W20-1-A)
- RIGHT LANE CLOSED AHEAD (W20-5R-B)
- LEFT LANE CLOSED AHEAD (W20-5L-D)
- CENTER LANE CLOSED AHEAD (W20-5-L)
- ROAD CLOSED AHEAD (W20-5-F)
- ROAD CLOSED 500' (W20-5-P)

TRAFFIC CONTROL SIGNS:

- KEEP RIGHT (R4-7a-Q)
- DETOUR (M4-10-T)
- ROAD CLOSED (R11-2-U)
- ROAD CLOSED TO THRU TRAFFIC (R11-4-V)
- END CONSTRUCTION (G20-2-W)
- LEFT LANE MUST TURN LEFT (R3-7L-X)
- RIGHT LANE MUST TURN RIGHT (R3-7R-A-A)
- BE PREPARED TO STOP (Z)
- ACCESS TO (Y)
- NO LEFT TURN (R3-2-B-B)

NOTE: ARROW DIRECTION TO BE ADJUSTED AS NEEDED.

TAPER REQUIREMENTS

SPEED (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10' LANE	11' LANE	12' LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**TITLE: TRAFFIC CONTROL TYPICAL DETAILS
2ND STREET/CANDELARIA ROAD**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	9-6-90			
Trans. Dev	<i>[Signature]</i>	9-6-90			
Utility Dev	<i>[Signature]</i>	9-6-90			

PROJECT NO. M-4035(3)
C.O.A. 3203

MAP NO.

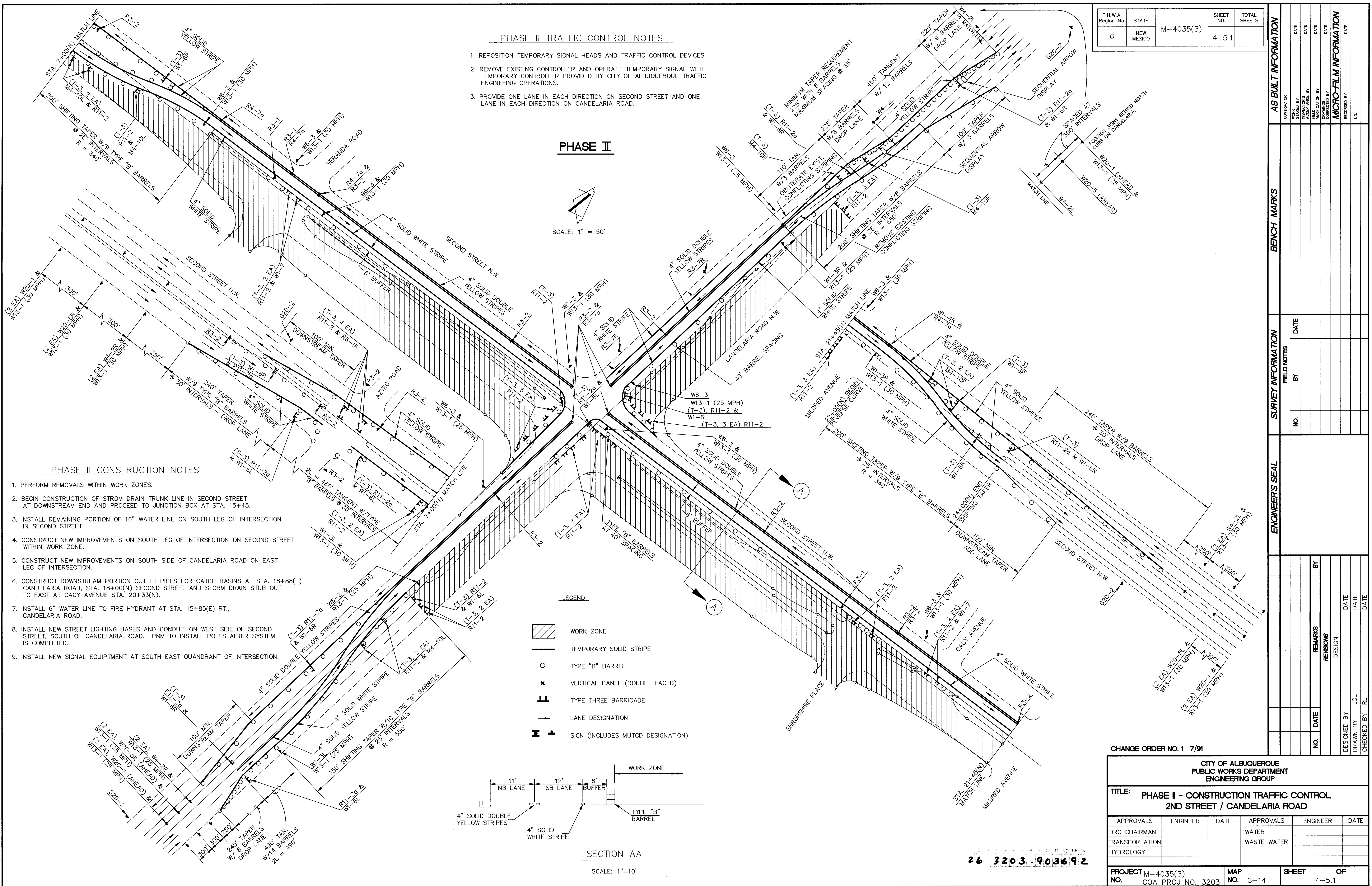
SHEET 4-2 OF 4-2

DATE 12/10/92

RECORD DRAWING

26 3203-903392

Time: 15/08/11
Drawing File: PHII-COT
Directory: C:\V-CAD\Bentley\



F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		4-5.1	

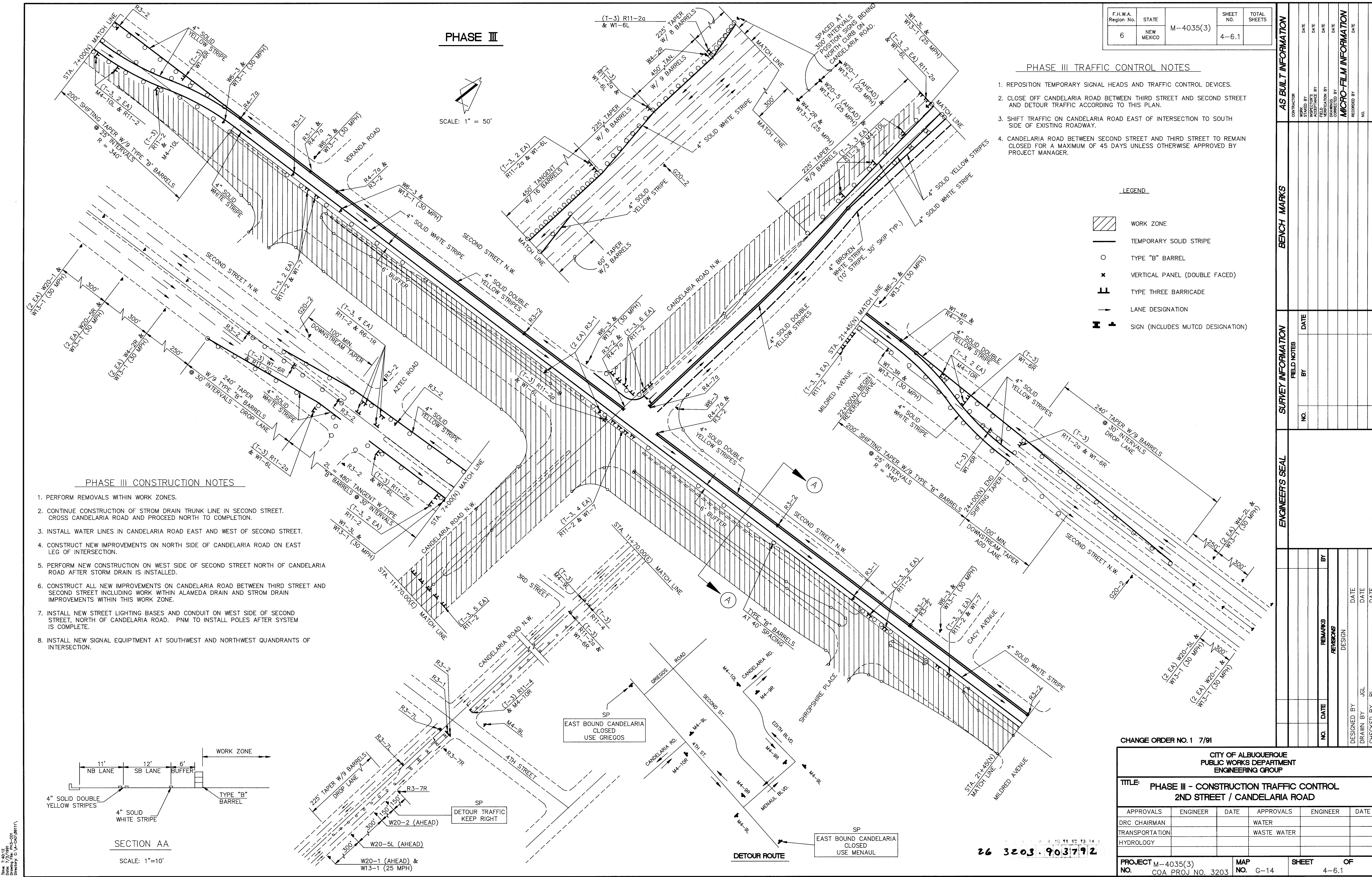
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CONTRACTOR				FIELD NOTES			
MARK STAKED BY	DATE			BY	DATE		
ACCEPTANCE BY	DATE			NO.			
FIELD CONTROL BY	DATE						
DRAWINGS CORRECTED BY	DATE						
RECORDED BY	DATE						
NO.							
REMARKS		REMARKS		REMARKS		REMARKS	
DESIGNED BY		DESIGNED		DESIGNED		DESIGNED	
DRAWN BY		JGL		DATE		DATE	
CHECKED BY		RL		DATE		DATE	

CHANGE ORDER NO. 1 7/91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PHASE II - CONSTRUCTION TRAFFIC CONTROL 2ND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO.	M-4035(3) COA PROJ NO. 3203	MAP NO.	G-14	SHEET	OF
				4-5.1	

12/10/92

RECORD DRAWING



F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		4-6.1	

PHASE III TRAFFIC CONTROL NOTES

1. REPOSITION TEMPORARY SIGNAL HEADS AND TRAFFIC CONTROL DEVICES.
2. CLOSE OFF CANDELARIA ROAD BETWEEN THIRD STREET AND SECOND STREET AND DETOUR TRAFFIC ACCORDING TO THIS PLAN.
3. SHIFT TRAFFIC ON CANDELARIA ROAD EAST OF INTERSECTION TO SOUTH SIDE OF EXISTING ROADWAY.
4. CANDELARIA ROAD BETWEEN SECOND STREET AND THIRD STREET TO REMAIN CLOSED FOR A MAXIMUM OF 45 DAYS UNLESS OTHERWISE APPROVED BY PROJECT MANAGER.

LEGEND

- WORK ZONE
- TEMPORARY SOLID STRIPE
- TYPE "B" BARREL
- VERTICAL PANEL (DOUBLE FACED)
- TYPE THREE BARRICADE
- LANE DESIGNATION
- SIGN (INCLUDES MUTCD DESIGNATION)

PHASE III CONSTRUCTION NOTES

1. PERFORM REMOVALS WITHIN WORK ZONES.
2. CONTINUE CONSTRUCTION OF STORM DRAIN TRUNK LINE IN SECOND STREET. CROSS CANDELARIA ROAD AND PROCEED NORTH TO COMPLETION.
3. INSTALL WATER LINES IN CANDELARIA ROAD EAST AND WEST OF SECOND STREET.
4. CONSTRUCT NEW IMPROVEMENTS ON NORTH SIDE OF CANDELARIA ROAD ON EAST LEG OF INTERSECTION.
5. PERFORM NEW CONSTRUCTION ON WEST SIDE OF SECOND STREET NORTH OF CANDELARIA ROAD AFTER STORM DRAIN IS INSTALLED.
6. CONSTRUCT ALL NEW IMPROVEMENTS ON CANDELARIA ROAD BETWEEN THIRD STREET AND SECOND STREET INCLUDING WORK WITHIN ALAMEDA DRAIN AND STORM DRAIN IMPROVEMENTS WITHIN THIS WORK ZONE.
7. INSTALL NEW STREET LIGHTING BASES AND CONDUIT ON WEST SIDE OF SECOND STREET, NORTH OF CANDELARIA ROAD. PNM TO INSTALL POLES AFTER SYSTEM IS COMPLETE.
8. INSTALL NEW SIGNAL EQUIPMENT AT SOUTHWEST AND NORTHWEST QUADRANTS OF INTERSECTION.

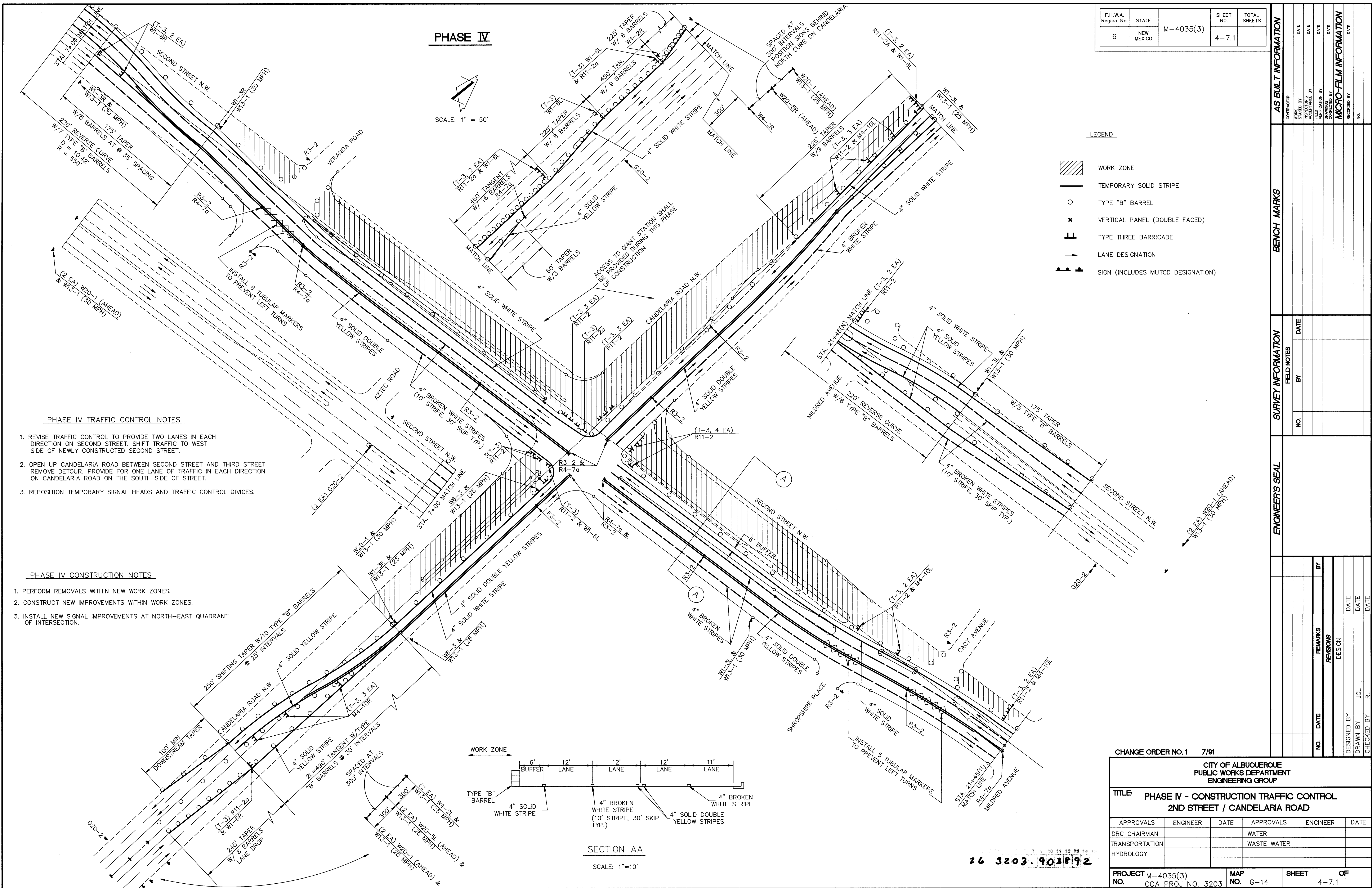
SECTION AA

SCALE: 1"=10'

CHANGE ORDER NO. 1 7/91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PHASE III - CONSTRUCTION TRAFFIC CONTROL 2ND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO.	M-4035(3) COA PROJ NO. 3203	MAP NO.	G-14	SHEET OF	4-6.1

RECORD DRAWING



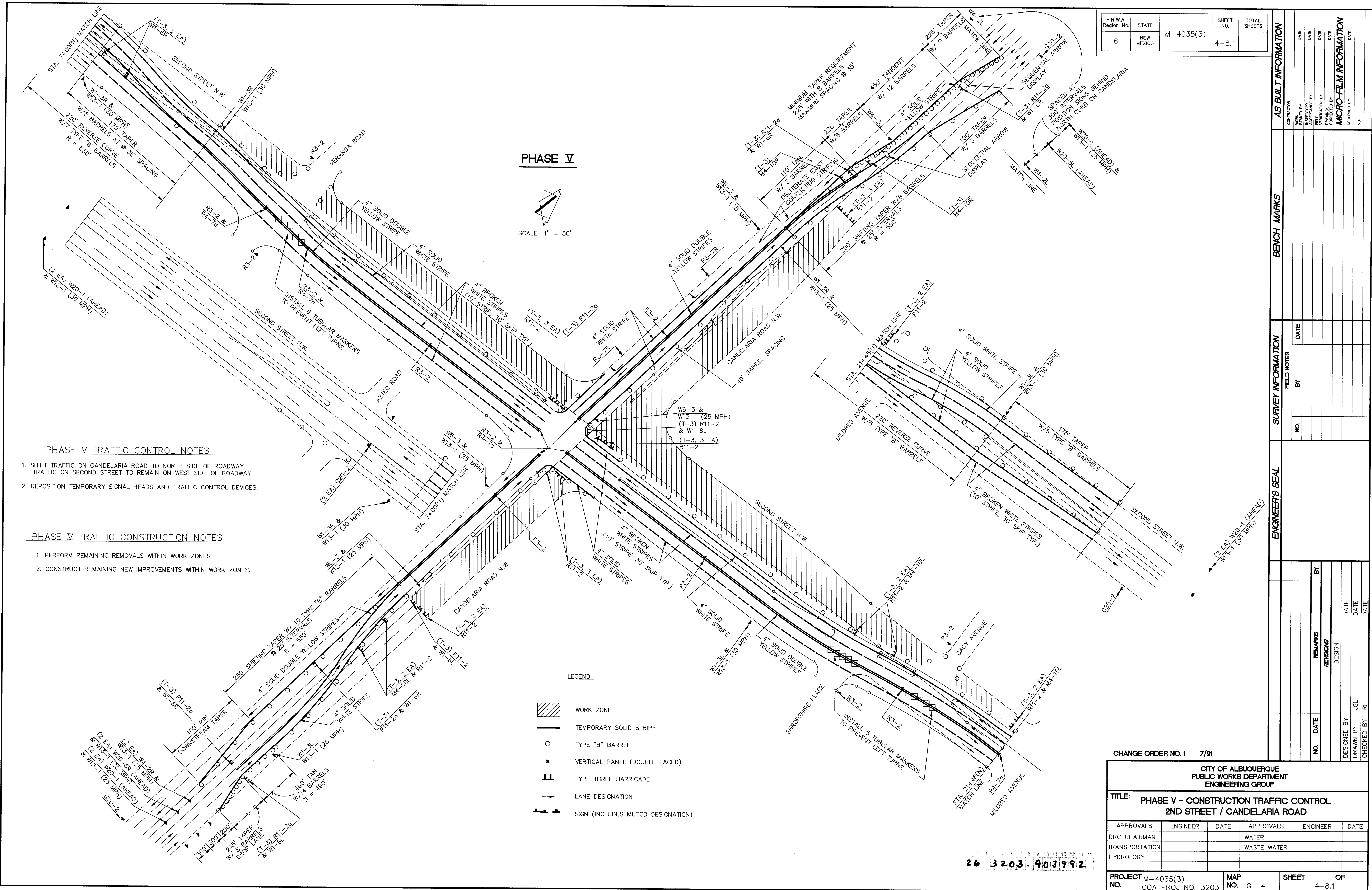
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Date: 7/3/1991
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Directory: C:\A-CAD\86111\

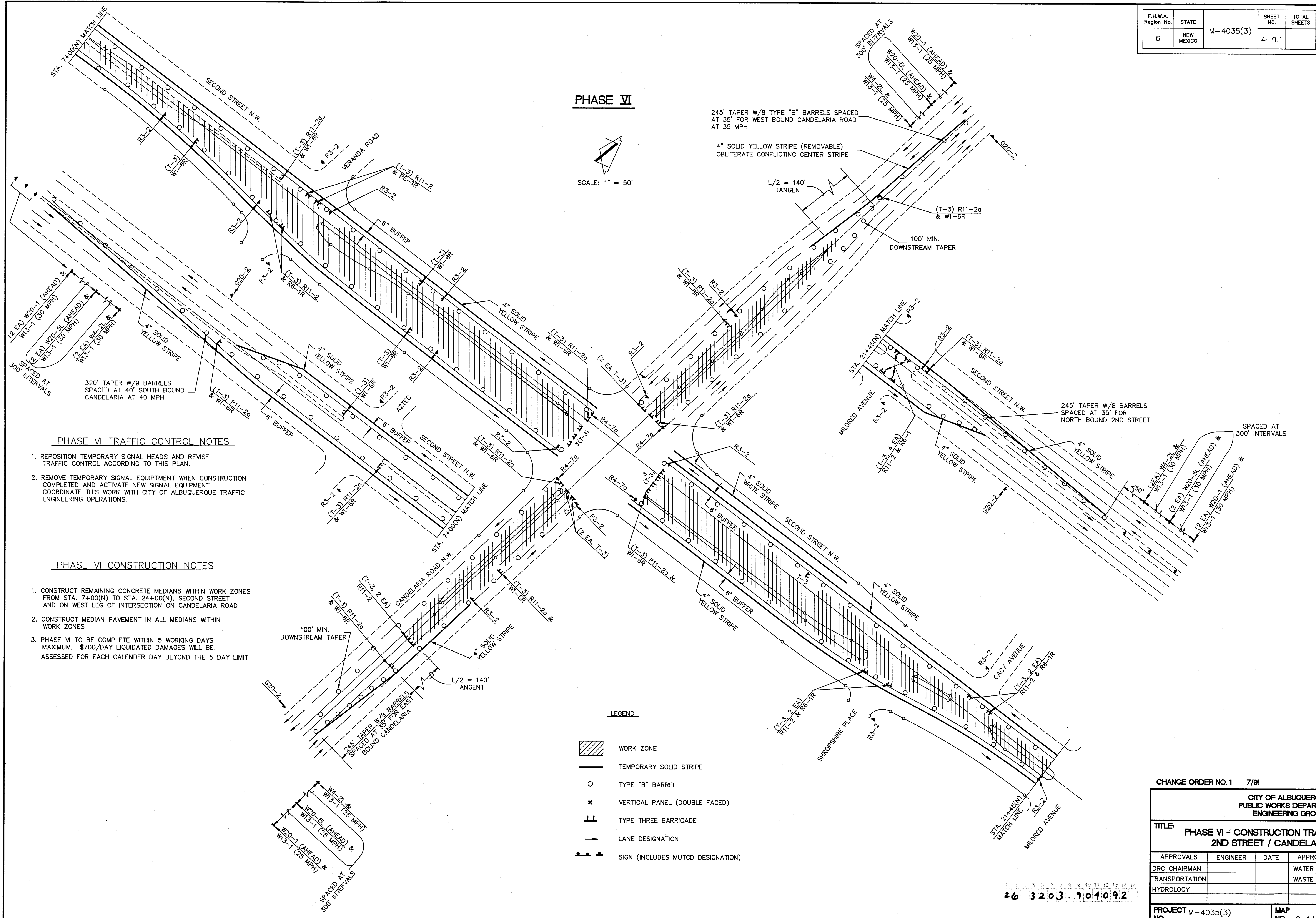
26 3203.903892

CHANGE ORDER NO. 1		7/91							Z			DE	DR	CU
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP														
TITLE: PHASE IV - CONSTRUCTION TRAFFIC CONTROL 2ND STREET / CANDELARIA ROAD														
APPROVALS		ENGINEER		DATE		APPROVALS		ENGINEER		DATE				
DRC CHAIRMAN						WATER								
TRANSPORTATION						WASTE WATER								
HYDROLOGY														
PROJECT NO. M-4035(3) COA PROJ NO. 3203				MAP NO. G-14				SHEET 4-7.1				OF		

RECORD DRAWING

Drawn: 10/4/97
Checked: 10/10/97
Designed: 10/10/97
Reviewed: 10/10/97
Director: C. V. GARDNER





PHASE VI

SCALE: 1" = 50'

PHASE VI TRAFFIC CONTROL NOTES

- 1. REPOSITION TEMPORARY SIGNAL HEADS AND REVISE TRAFFIC CONTROL ACCORDING TO THIS PLAN.
- 2. REMOVE TEMPORARY SIGNAL EQUIPMENT WHEN CONSTRUCTION COMPLETED AND ACTIVATE NEW SIGNAL EQUIPMENT. COORDINATE THIS WORK WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS.

PHASE VI CONSTRUCTION NOTES

- 1. CONSTRUCT REMAINING CONCRETE MEDIANS WITHIN WORK ZONES FROM STA. 7+00(N) TO STA. 24+00(N), SECOND STREET AND ON WEST LEG OF INTERSECTION ON CANDELARIA ROAD
- 2. CONSTRUCT MEDIAN PAVEMENT IN ALL MEDIANS WITHIN WORK ZONES
- 3. PHASE VI TO BE COMPLETE WITHIN 5 WORKING DAYS MAXIMUM. \$700/DAY LIQUIDATED DAMAGES WILL BE ASSESSED FOR EACH CALENDER DAY BEYOND THE 5 DAY LIMIT

LEGEND

- WORK ZONE
- TEMPORARY SOLID STRIPE
- TYPE "B" BARREL
- VERTICAL PANEL (DOUBLE FACED)
- TYPE THREE BARRICADE
- LANE DESIGNATION
- SIGN (INCLUDES MUTCD DESIGNATION)

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		4-9.1	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE			FIELD NOTES	DATE		
INSPECTOR'S	DATE			BY			
FIELD	DATE			NO.			
VERIFICATION	DATE						
CONNECTED	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

CHANGE ORDER NO. 1 7/91

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: PHASE VI - CONSTRUCTION TRAFFIC CONTROL 2ND STREET / CANDELARIA ROAD					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO. M-4035(3) COA PROJ NO. 3203		MAP NO. G-14		SHEET 4-9.1 OF	

26 3203.101092

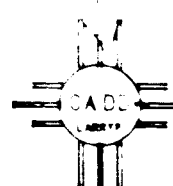
RECORD DRAWING

SIGN CODE	NO. OF SIGNS	SIGN AREA SQ. FT.	POST LENGTH				SIGN REQUIREMENTS				BASE POST			
			LEFT	CTR.	RIGHT	TOTAL	CHANNEL	DRIVE DOWN POSTS	PORTABLE SIGN SUPPORT	NO.	TOTAL LENGTH			
								2-25 LB/FT	3-0 FT LB/FT	4-0 FT LB/FT	2-3/16 x 2-3/16	2-1/2 x 2-1/2		
PHASE IV CONSTRUCTION														
A (1/2)	4	(64)											(4)	
C-C(30)*	4	(16)												
A(600)	4	(64)											(4)	
C-C(30)*	4	(16)												
B	4	(64)											(4)	
C	4	(64)											(4)	
F	2	(32)											(2)	
I	3	(48)											(3)	
J	1	(16)											(1)	
K	1	(16)											(1)	
Q	7	(40) 72											(1)	
R	5	(20)			7.5	(37.5)							1	3.5
R	8	(32)			(2) Barrels (6-Portable w/Q)								(6)	
SP	4	(32)											(4)	
Barricades - Type 3		(2) Each												
Barrels - Type "B"		(84) Each												
Removal Of Pavement Stripe														
Reflectorized Painted Markings		5500 LF												
SUB-TOTALS		(524) 72				(37.5)							(34)	3.5
PHASE I CONSTRUCTION														
A (1/2)	4	(64)											(4)	
C-C(30)*	4	(16)												
A(600)	4	(64)											(4)	
C-C(30)*	4	(16)												
B	4	(64)											(4)	
C	4	(64)											(4)	
F	2	(32)											(2)	
I	2	(32)											(2)	
J	1	(16)											(1)	
K	1	(16)											(1)	
Q	6	(36)												
R	5	(20)			7.5	(37.5)							5	17.5
R	6	(24)			(6-Portable w/Q)								(6)	

SIGN CODE	NO. OF SIGNS	SIGN AREA SQ. FT.	POST LENGTH				SIGN REQUIREMENTS				BASE POST	
			LEFT	CTR.	RIGHT	TOTAL	CHANNEL	DRIVE DOWN POSTS	PORTABLE SIGN SUPPORT	NO.	TOTAL LENGTH	
PHASE I CONSTRUCTION (Cont.)												
R	3	(12)										
Barricades - Type 3		(2) Each										
Barrel - Type "B"		(92) Each										
SP	4	(32)										
A-A	1	(6.25)		9.0		(9.0)					1	3.5
Removal Of Pavement Stripe												
Reflectorized Painted Markings		5700 LF										
SUB-TOTALS		(574.25)				(46.5)				(28)		21
PHASE II CONSTRUCTION												
A(1/2)	7	(112)								(4)		
C-C(30)*	7	(28)										
A(600)	7	(112)								(4)		
C-C(30)*	7	(28)										
E	6	(36)								(6)		
D	6	(36)								(6)		
Q	7	(112)		(7) Use w/Barricades								
R	5	(20)		9.0		(45.0)					5	17.5
R	16	(64)		7.5		(120.0)	(16) Barrels					
Barricades - Type 3		(24) Each										
Barrels - Type "B"		(148) Each										
Removal Of Pavement Stripe												
Reflectorized Painted Markings		3000 LF										
SUB-TOTALS		(668)				(165)				(20)		17.5
SHEET TOTALS		(1146) 1048.5				(230) 258				(67) 39		49
SHEET TOTALS		(1766.25) 72				(249)				(82) 39		42
TOTAL		(2912.25) 1120.5				(479) 258				(149) 39		91

1. SIGN SHALL BE USED IN OTHER CONSTRUCTION
PHASES AND ADDITIONAL PAYMENT THEREFORE.
2. NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON
COMMON POST WITH ANOTHER SIGN.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 3203.904292



NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT
TRAFFIC DESIGN SECTION
TRAFFIC CONTROL DEVICES
FOR CONSTRUCTION
SUMMARY OF QUANTITIES

M-4035(3)
DATE 6-90 C.O.A. 3203 SHEET 4-11

...all the way to the ...

1) TRAFFIC CONTROL PLAN AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATION, AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE.

2) ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - SECTION 702 (1984 EDITION) AND CHAPTER VI OF THE 1978 EDITION MUTCD .

3.) ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.

4. BID ITEM - (STEEL POSTS AND BASE POSTS FOR DETOUR SIGNS). THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS. REFER TO SERIALS SN 75-TBAC-001-10 AND TBAC-002-11.

5.) BID ITEM - (TYPE III BARRICADE - 6' OR 8'). TYPE III BARRICADES SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED TYPE "A" FLASHING BEACONS, PLYWOOD ARROW AND ROAD CLOSED SIGNS ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT - PER EACH.

6.) BID ITEM - (TYPE I BARRICADE-8'). TYPE I BARRICADE SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED HIGH INTENSITY FLASHING BEACON ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT — PER EACH.

7.) BID ITEM - (VERTICAL PANELS, SINGLE TYPE OR BACK TO BACK 8" x 24"). VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING .060 MIN 6061 T-6. PANELS TO BE MOUNTED ON DRIVE-DOWN POST EITHER 3' DRIVE OR ON STANCHION. BID UNIT - PER EACH.

8.) FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"x18" MIN.) IN ACCORDANCE WITH THE MUTCD. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, NO PAYMENT OR MEASUREMENT WILL BE MADE THEREFORE.

9.) BID ITEM - (CHANNELIZATION DEVICE BARREL TYPE "A" OR TYPE "B"). CHANNELIZATION DEVICE BARRELS SHALL BE ORANGE ON WHITE REFLECTORIZED. TYPE "A" REQUIRES NO BEACON. TYPE "B" SHALL BE EQUIPPED WITH BEACON AS SPECIFIED IN THE STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 702.021 (a), 1984 EDITION.

(C) THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CONTROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE DISTRICT HIGHWAY ENGINEER IF, BECAUSE OF FIELD CONDITION AS ACTUALLY ENCOUNTERED, SUCH CHANGES ARE DESIRABLE AT THE DISCRETION OF THE PROJECT MANAGER. THESE CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CONSIDERED AN AMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.

II.) THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TO THE DISTRICT HIGHWAY ENGINEER FOR APPROVAL.

2) NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.

13) ITEM 704010 IS INCLUDED FOR PAVEMENT STRIPING BETWEEN SURFACING LIFTS AS DIRECTED BY THE PROJECT MANAGER.

(4) BID ITEM-(SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT). SAND BARREL VEHICULAR ATTENUATOR UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND SHALL NOT REVERT TO THE CONTRACTOR. THIS ITEM SHALL BE DELIVERED AND STOCK-PILED AT LOCATIONS DIRECTED BY THE PROJECT MANAGER.

15.) THE CONTRACTOR SHALL HAVE A RESPONSIBLE PERSON ON SITE DURING WORKING HOURS AND ON CALL DURING NON WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY PROJECT MANAGER.

(16) ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.

7.2. BID ITEM - (PRECAST CONCRETE WALL BARRIER). PRECAST CONCRETE WALL BARRIER WHEN USED FOR TRAFFIC CONTROL PURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF THE PROJECT. PRECAST CONCRETE WALL BARRIER SHALL NOT REVERT TO THE CONTRACTOR OR UNLESS OTHERWISE SPECIFIED.

PRECAST CONCRETE WALL BARRIER SHALL BE FABRICATED IN EITHER 10' UNITS OR 12.5' UNITS TO THE DIMENSIONS SHOWN ON PLANS. ALL PRECAST CONCRETE WALL BARRIER UTILIZED IN THE WORK SHALL BE OF THE SAME LENGTH AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 503 - PORTLAND CEMENT CONCRETE, SECTION 504.022(C) - STEEL REINFORCEMENT.

WHEN NEW PRECAST CONCRETE WALL BARRIER IS CALLED FOR ON PLAN, THE WALL BARRIER SHALL BE DELIVERED TO THE DESIGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST CONCRETE WALL BARRIER AS DIRECTED BY THE PROJECT MANAGER. Hauling and stockpiling of new precast concrete wall barrier to designated area and site shall be incidental to the item for precast concrete wall barrier. The designated area is

() SIGN (S) AND/OR SUPPORT () USED IN OTHER CONSTRUCTION PHASE (S). NO ADDITIONAL PAYMENT THEREFORE.

* NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

ITEM N ^o	BID I T E M	UNITS		TOTAL
702000	CONSTRUCTION SIGNING	SQ. FT.	USE 1125	(2912.25) 1120.5
702103	STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	LIN. FT.	USE 350	(479) 349
702205	BARRICADE, TYPE I	EACH		
702210	BARRICADE, TYPE II	EACH		
702215	BARRICADE, TYPE III 8 FT.	EACH		(62) 23 ✓
702214	BARRICADE TYPE III 6 FT.	EACH		
702330	VERTICAL PANEL, SINGLE TYPE	EACH		
702335	VERTICAL PANEL, BACK TO BACK TYPE	EACH		
702360	CONSTRUCTION TRAFFIC MARKER	EACH		
702145	PORTABLE SIGN SUPPORT	EACH		(149) 39 ✓
702349	CHANNELIZATION DEVICE - (BARREL)-TYPE "A"	EACH		
702350	CHANNELIZATION DEVICE (BARREL)-TYPE "B"	EACH	USE 200	(650) 197 ✓
702400	SEQUENTIAL ARROW DISPLAY	EACH		2
703210	REFLECTIVE BARRIER/DELINEATOR	EACH		
703120	TUBULAR TRAFFIC MARKER	EACH		16
702365	TRAFFIC CONES	EACH		
704010	REFLECTORIZED PAINTED MARKINGS	LIN. FT.		
704015	ADHESIVE MARKING TAPE FOR CONSTRUCTION ZONES	LIN. FT.		29000
704016	ADHESIVE NON-METALLIC MARKING TAPE	LIN. FT.		
720015	SAND-BARREL VEHICULAR IMPACT ATTENUATOR UNIT	EACH		
721001	REMOVAL OF PAVEMENT STRIPE	LIN. FT.		10000
606402	PRECAST CONCRETE WALL BARRIER	LIN. FT.		
606012	W-BEAM / BARREL BARRIER	LIN. FT.		
606405	HAULING PRECAST CONCRETE WALL BARRIER	LIN. FT.		
606410	RESETTING OF PRECAST WALL BARRIER	LIN. FT.		
717140	TEMPORARY REFLECTIVE PAVEMENT MARKER TYPE "D"	EACH		
INCIDENTAL TO ITEM 702000	CLEANING OF REFLECTIVE SURFACES ON TRAFFIC CONTROL DEVICES	SQ. FT.		2912.25

3			
2			
1			
No.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO
STATE HIGHWAY DEPARTMENT
TRAFFIC DESIGN SECTION
TRAFFIC CONTROL DEVICES
FOR CONSTRUCTION
SUMMARY OF QUANTITIES

M-4035(3)

C.O.A. 3203

SHEET 4-12

NO. _____ SHEET NO. _____

$$\overline{12} \overline{10} \overline{92}$$

RECORD DRAWING

SIGN CODE	NO. OF SIGNS	TOTAL SIGN AREA	POST LENGTH				MOUNTING REQUIREMENTS				BASE POSTS	
			LEFT	CTR.	RIGHT	TOTAL	CHANNEL POST		DRIVEDOWN POSTS 0.1345 THICK	PORTABLE SIGN SUPPORT	NO.	TOTAL LENGTH
							2-25 LB/FT	3-0 LB/FT				
							4-0 LB/FT	2-3/16 x 2-3/16	2-1/2 x 2-1/2			
PHASE I CONSTRUCTION												
A (1/2)	7	112									7	
C-C (30)*	7	28										
A (600)	7	112									7	
C-C (30)*	7	28										
D	6	96									6	
E	6	96									6	
W	4	40									4	
R	5	20		9.0		45.0	✓		✓		5	17.5
R	14	56		7.5		105.0	(14) Barrels					
R	2	8		(Barricades)								
Q	4	20		7.5		30.0	(4) Barrels					
Q	4	20		(Barricades)								
Barricades - Type 3		23 Each										
Barrels - Type "B"		163 Each										
Reflectorized Painted Markings		245 L.F.										
Removal Of Pavement Stripe		395 L.F.										
SP	4	32									4	
SUB-TOTALS		668				180					34	17.5
PHASE II CONSTRUCTION												
A (1/2)	7	(112)									(7)	
C-C (30)*	7	(28)										
A (600)	7	(112)									(7)	
C-C (30)*	7	(28)										
B	4	64									(4)	
D	1	(16)									(1)	
C	4	64									(4)	
E	2	(32)									(2)	
W	4	(40)									(4)	
I	6	96		7.5		45.0						
J	2	32		7.5		15.0	(2) Barrels					
R	5	(20)		9.0		(40.0)						
R	14	(56)		7.5		(105.0)	(8) Barrels (11) RI (5) RQ					
Q	2	(10)		(1) Barrel (1) Barricade								
Barricades - Type 3		(16) Each										
Barrels - Type "B"		(163) Each 3 Each										
A-A	2	12.5		9.0		18.0					2	7.0

SIGN CODE	NO. OF SIGNS	TOTAL SIGN AREA SQ. FT.	POST LENGTHS				MOUNTING REQUIREMENTS				BASE POSTS	
			LEFT	CTR.	RIGHT	TOTAL	FLANGED CHANNEL	DRIVEDOWN POSTS 0.1345 THICK	PORTABLE SIGN SUPPORT	NO.	TOTAL LENGTH	
PHASE II CONSTRUCTION (Cont.)												
SP	4	(32)									(4)	
Reflectorized Painted Markings		10,250 LF										
SUB-TOTALS		(486) 268.5				(145.0) 78					(33)	7.0
PHASE III CONSTRUCTION												
A (1/2)	7	(112)									(7)	
C-C (30)*	7	(28)										
A (600)	7	(112)									(7)	
C-C (30)*	7	(28)										
B	4	(64)									(4)	
D	2	(32)									(2)	
C	6	32 (64)									(2) (4)	
E	3	(48)									(3)	
W	4	(40)									(4)	
I	7	(64) 48									5	
I	2	(32)		7.5		(45.0)					2	7.0
K	1	16									(1)	
R	5	(20)		9.0		(40.0)					5	17.5
R	8	(32)		(8) Barrels								
Barricades - Type 3		(18) Each										
Barrels - Type "B"		(163) Each 25 Each										
Reflectorized Painted Markings		10,000 LF										
Removal Of Pavement Stripe												
SP												
SUB-TOTALS		(660) 112				(85.0)					(34) 5	24.5
SHEET TOTALS		(1146) 1048.5				(230) 258					(67) 39	49

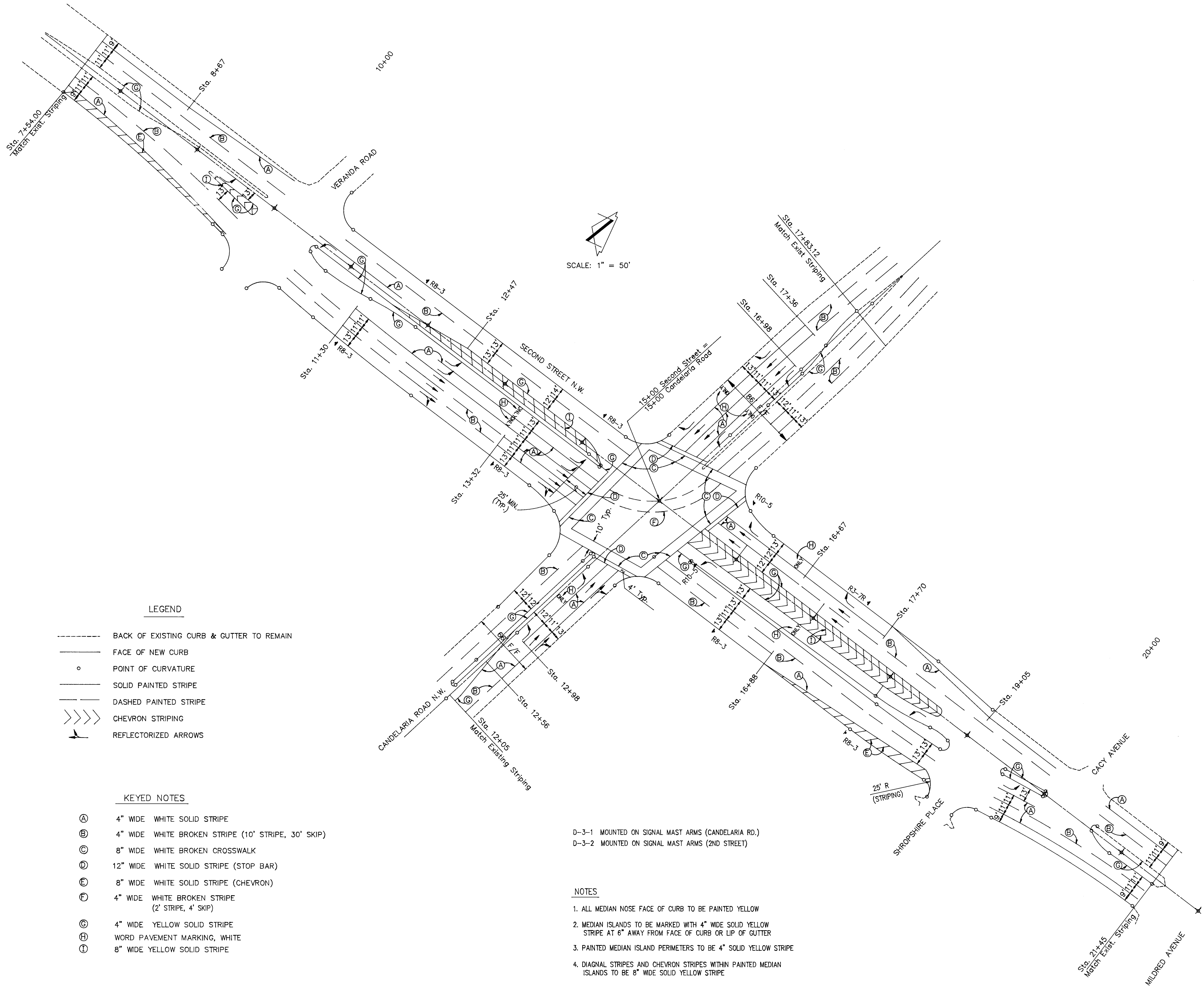
() SIGN(S) AND/OR SUPPORT(S) USED IN OTHER CONSTRUCTION PHASE(S). NO ADDITIONAL PAYMENT THEREFORE.
 * NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 26 3203 904192

F.H.W.A. REGION 5 NEW MEXICO PROJECT NO. M-4035(3) 4-10	
DESCRIPTION REVISIONS (FOR CHANGE NOTICES)	
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT TRAFFIC DESIGN SECTION TRAFFIC CONTROL DEVICES FOR CONSTRUCTION SUMMARY OF QUANTITIES M 4035(3) C.O.A. 3203	
DATE 6-90	SHEET 4-10

12/10/92
 RECORD DRAWING

Time: 17:11:0
Date: 9/5/1990
Drawing File: PERMISG
Directory: C:\A-CAD\86111\



F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		5-1	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR				FIELD NOTES			
WORK STATED BY	DATE			BY	DATE		
INSPECTED BY	DATE						
FIELD CORRECTION BY	DATE						
REMARKS							
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

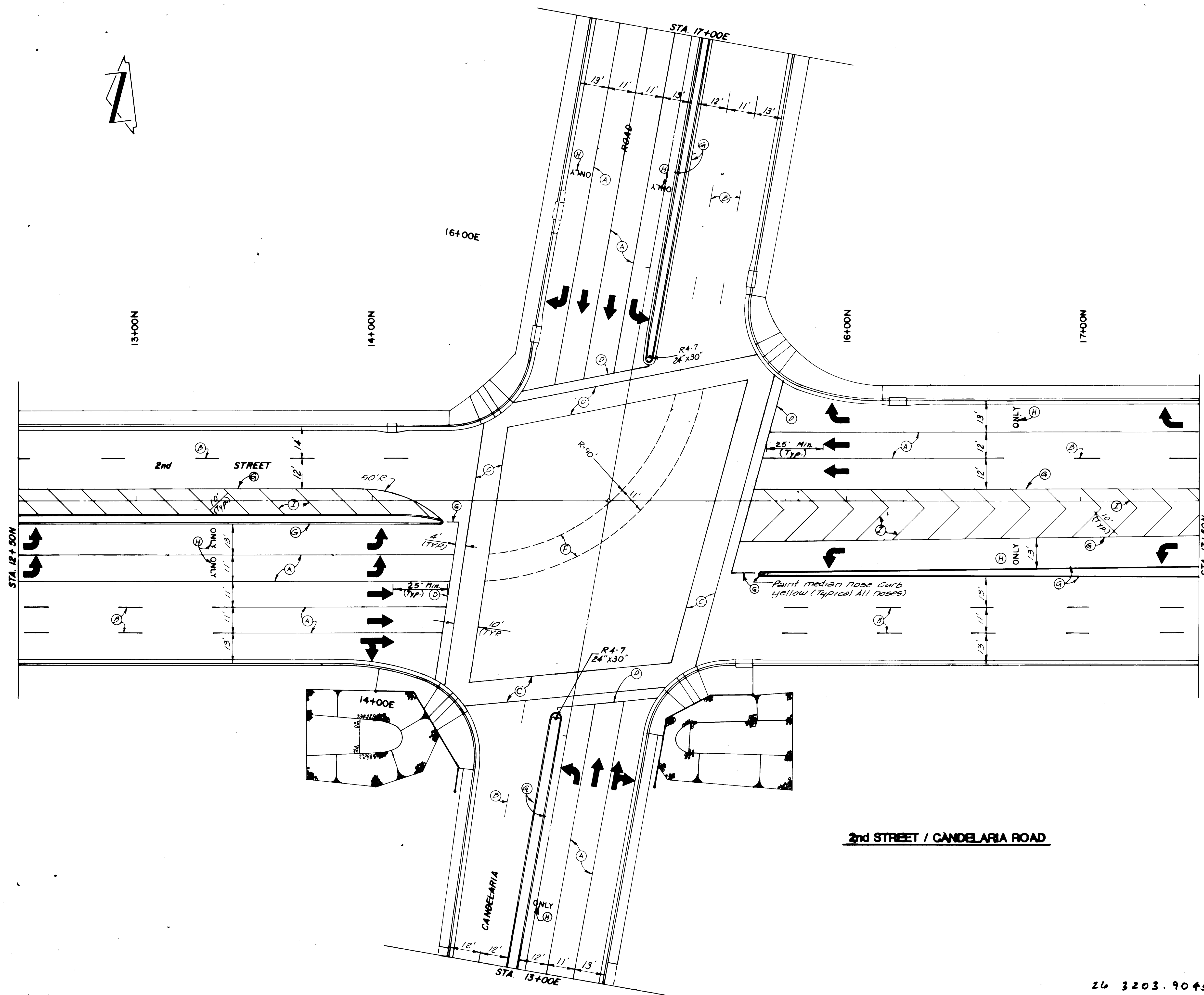
TITLE:
PERMANENT SIGNING AND STRIPING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	R. W. Kane	9-6-90	WATER	R. W. Kane	9-6-90
TRANSPORTATION	R. W. Kane	7-6-90	WASTE WATER	R. W. Kane	9-6-90
HYDROLOGY	NA				

PROJECT NO.	M-4035(3) COA PROJ. NO. 3203	MAP NO.	G-14	SHEET NO.	5-1	OF	
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26 3203.904492

12/10/92



- STRIPING LEGEND**
- (A) 4" White Solid Stripe
 - (B) 4" White Broken Stripe
 - (C) 8" White Broken (Cross Walk)
 - (D) 12" White Solid (Stop Bar)
 - (E) 8" White Solid (Chevron)
 - (F) 4" White Broken Stripe 2' Stripe, 4' Space
 - (G) 4" Yellow Solid Stripe
 - (H) Word Pavement Marking, White
 - (Z) 8" Solid Yellow Stripe

PROJECT NO. 6		STATE NEW MEXICO		SHEET NO. 5-2	
AS BUILT INFORMATION CONTRACTOR: _____ WORK STARTED BY: _____ DATE: _____ FIELD ACCEPTANCE BY: _____ DATE: _____ DESIGNATION BY: _____ DATE: _____ CHECKED BY: _____ DATE: _____ RECORDED BY: _____ DATE: _____					
ENGINEER'S SEAL NO. _____ DATE: _____ REMARKS: _____ REVISIONS: _____ DESIGN: _____ DESIGNED BY: R.L. DATE: 5-5-90 DRAWN BY: GNC DATE: 9/5/95 CHECKED BY: RL DATE: 9/5/90		SURVEY INFORMATION FIELD NOTES: _____ BY: _____ DATE: _____			
BENCH MARKS					

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DESIGN (TRANSPORTATION)

TITLE: **INTERSECTION / STRIPING PLAN**
2nd STREET / CANDELARIA ROAD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>R.W. Kane</i>	9-6-90	Liquid Waste	<i>R.W. Kane</i>	9-6-90
A.C.E. - Design	<i>NA</i>		Traffic	<i>R.W. Kane</i>	9-6-90
A.C.E. - Hydrology	<i>NA</i>		Water	<i>R.W. Kane</i>	9-6-90

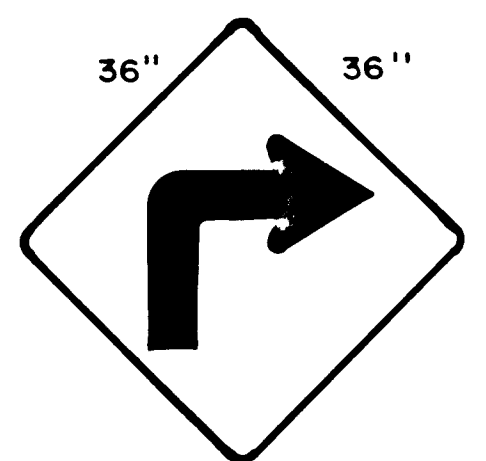
PROJECT NO. M-4035(3) C.O.A. 3203

MAP NO. G-14

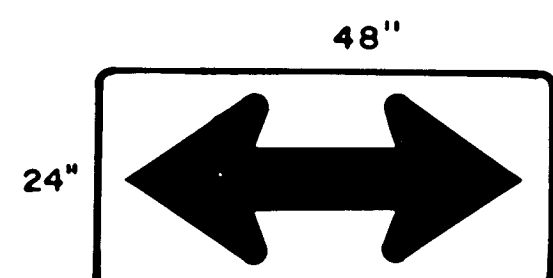
SHEET 5-2 OF 5

24 3203.904592

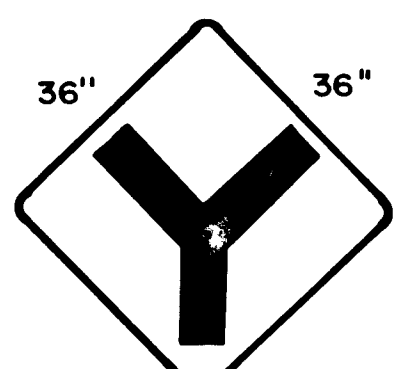
F.H.W.A. Region No.	STATE	NMP	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO	M-4035(3)	5-3	



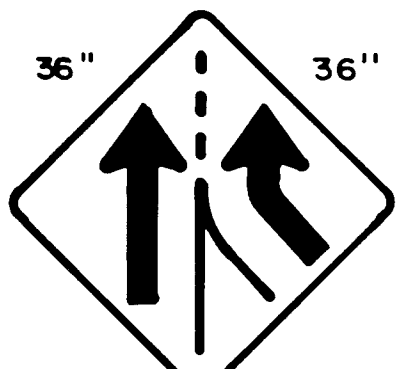
W1-1
W1-1a = 48" X 48"



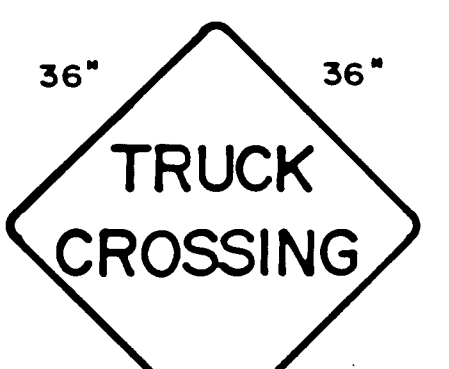
W1-7
W1-7a = 30" X 60"



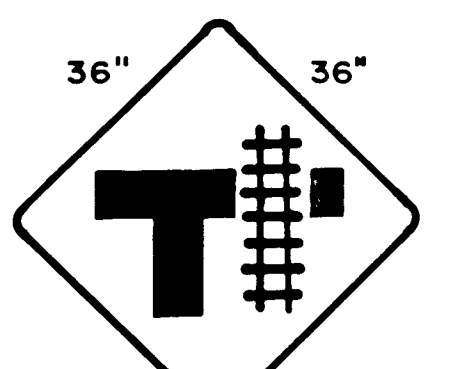
W2-5
W2-5a = 48" X 48"



W4-3
W4-3a = 48" X 48"



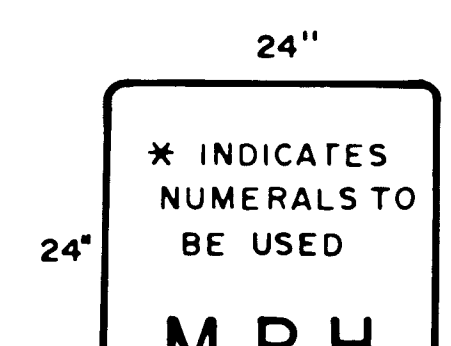
W8-6
W8-6a = 48" X 48"



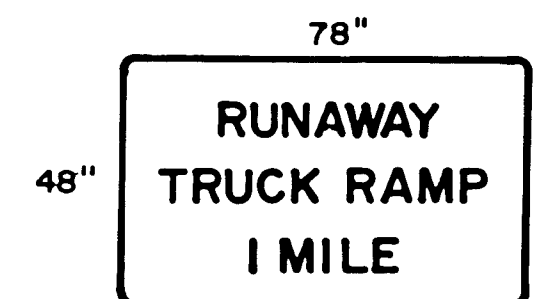
W10-4
W10-4a = 48" X 48"



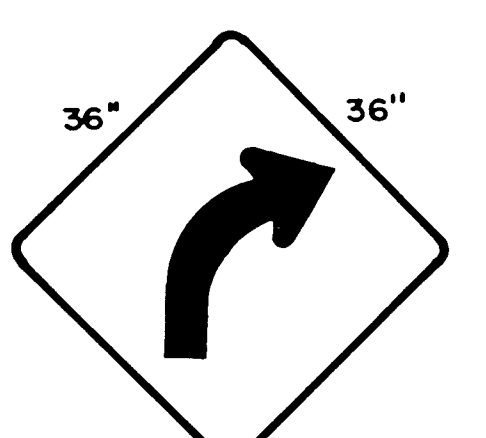
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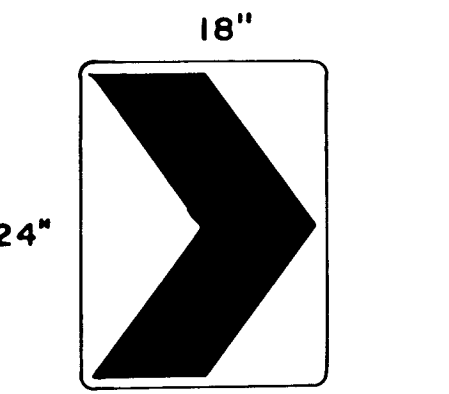
W13-1 ()**



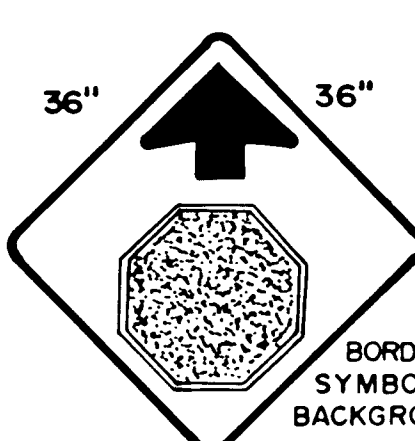
W7-4



W1-2
W1-2a = 48" X 48"



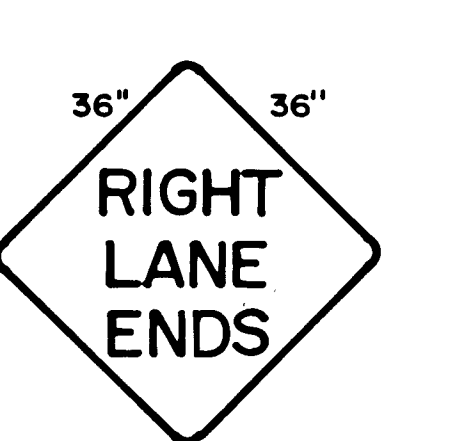
W1-8
W1-8a = 30" X 36"



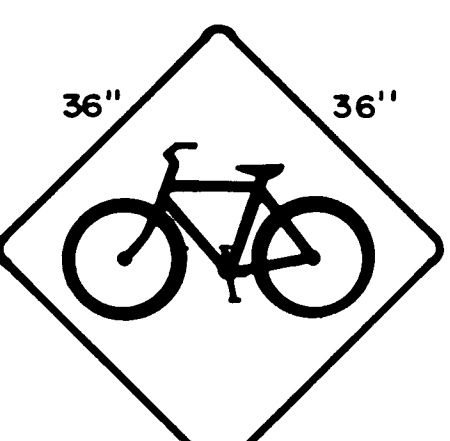
W3-1a
W3-1b = 48" X 48"



W5-1
W5-1a = 48" X 48"



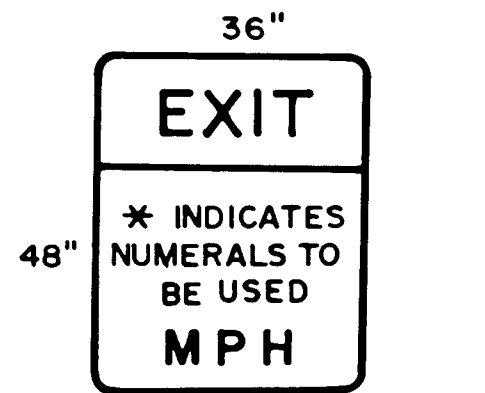
W9-1 LEFT
W9-1a = 48" X 48"



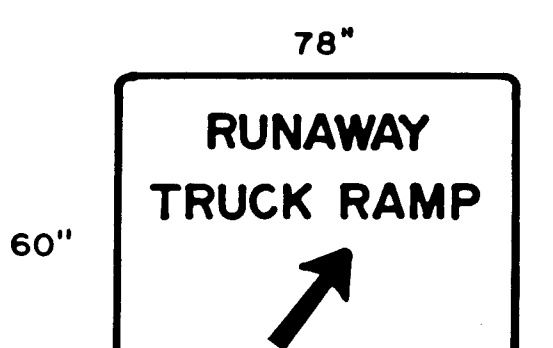
W11-1
W11-1a = 48" X 48"



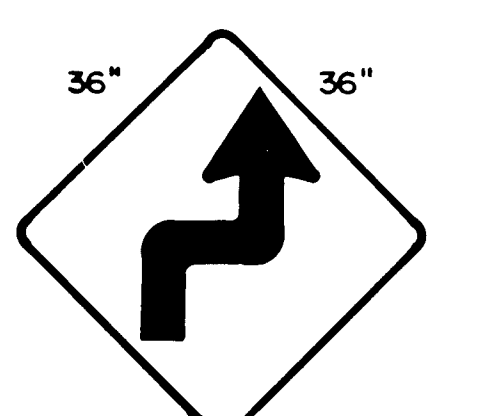
W11-6
W11-6a = 48" X 48"



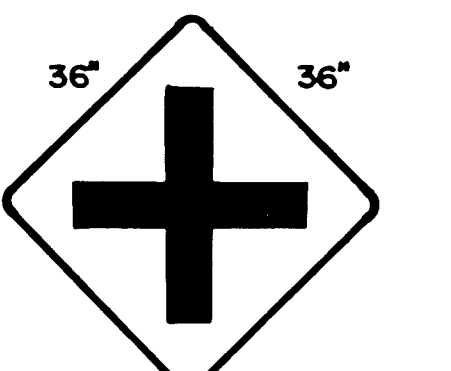
W13-2 () (X*)**
W13-2a = 48" X 60"



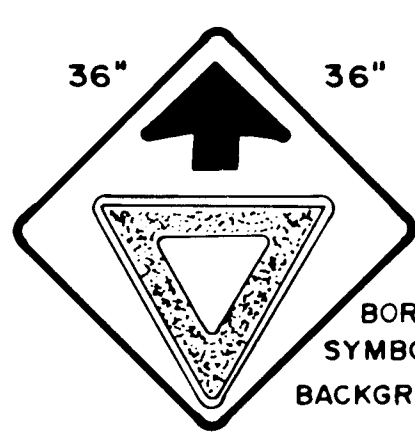
W7-4a



W1-3
W1-3a = 48" X 48"



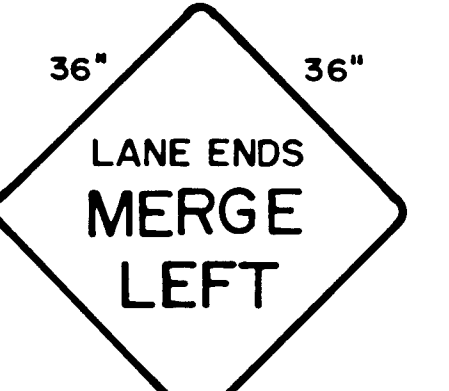
W2-1
W2-1a = 48" X 48"



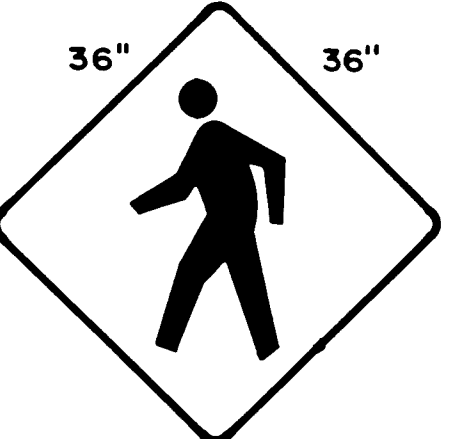
W3-2a
W3-2b = 48" X 48"



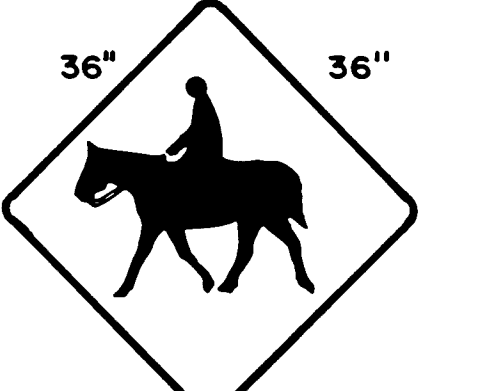
W5-2
W5-2a = 48" X 48"



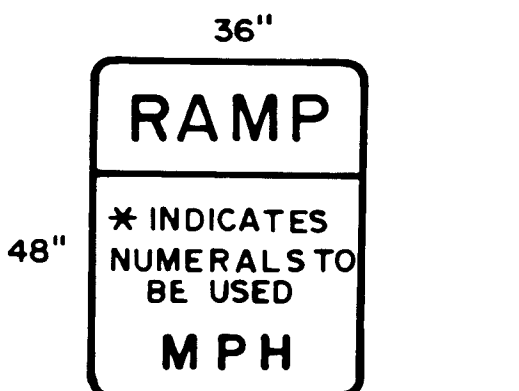
W9-2 RIGHT
W9-2a = 48" X 48"



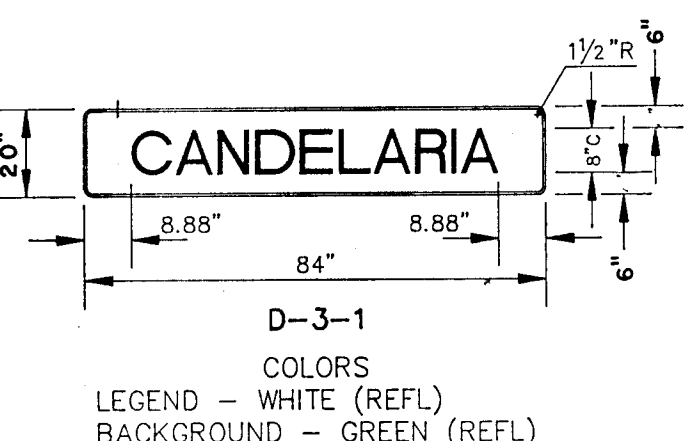
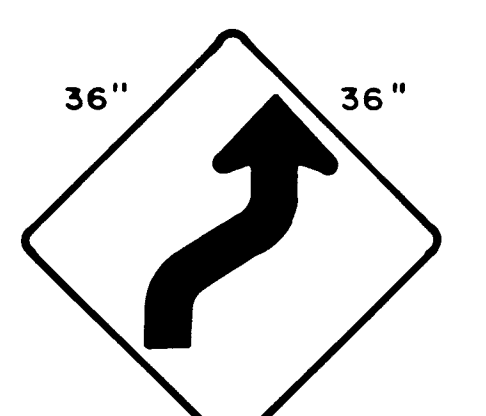
W11-2
W11-2a = 48" X 48"



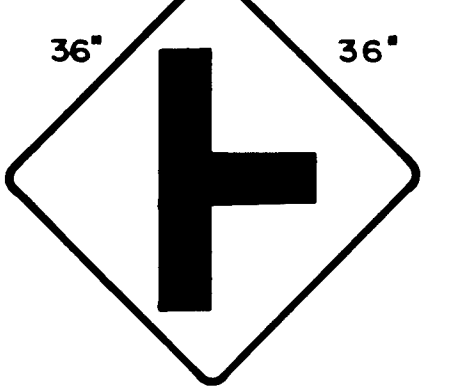
W11-7
W11-7a = 48" X 48"



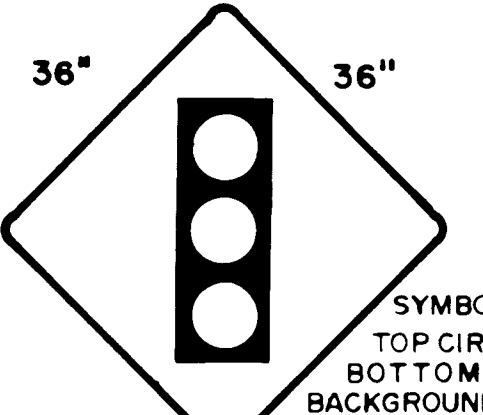
W13-3 () (X*)**
W13-3a = 48" X 60"

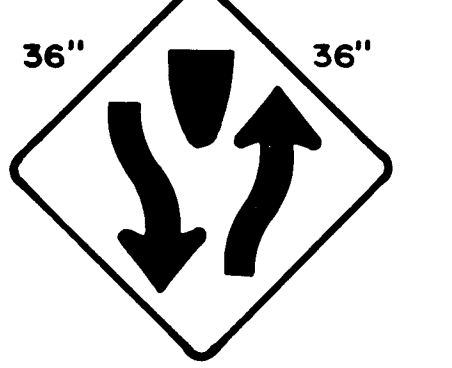
W1-4
W1-4a = 48" X 48"



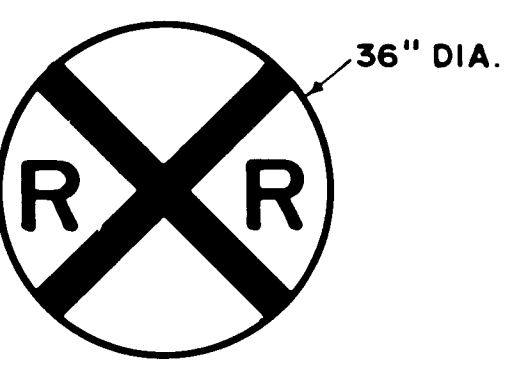
W2-2
W2-2a = 48" X 48"



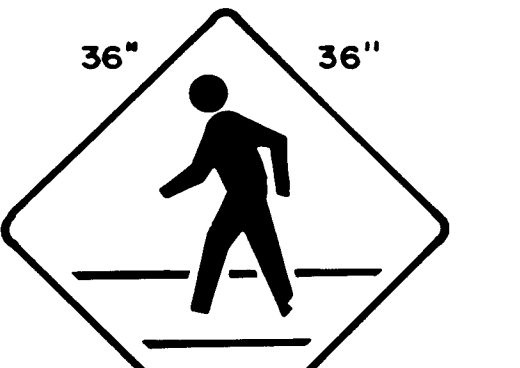
W3-3
W3-3a = 48" X 48"



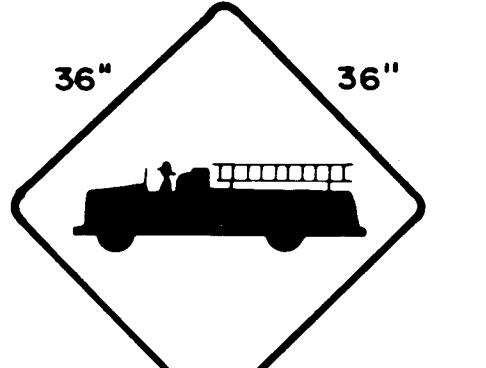
W6-1
W6-1a = 48" X 48"



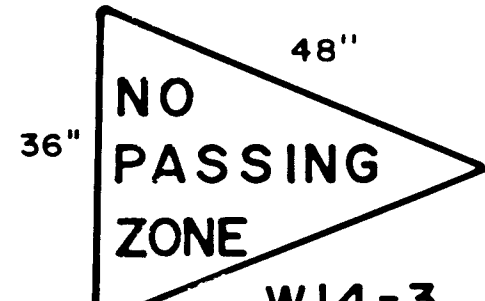
W10-1
W10-1a = 48" DIA.



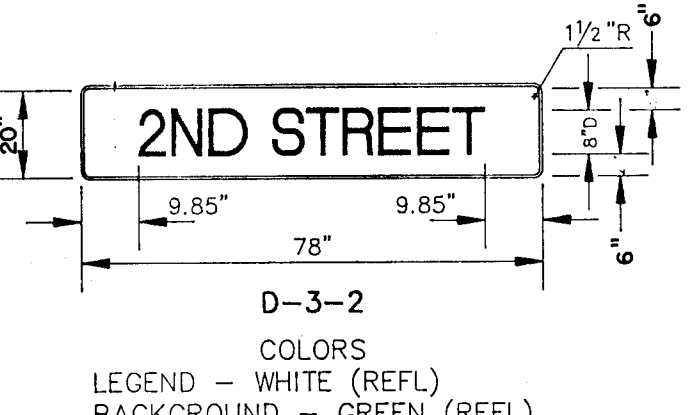
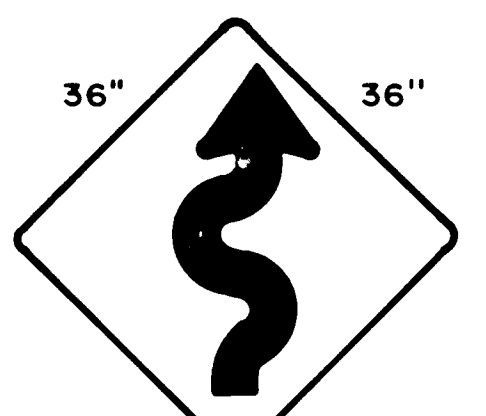
W11A-2
W11A-2a = 48" X 48"



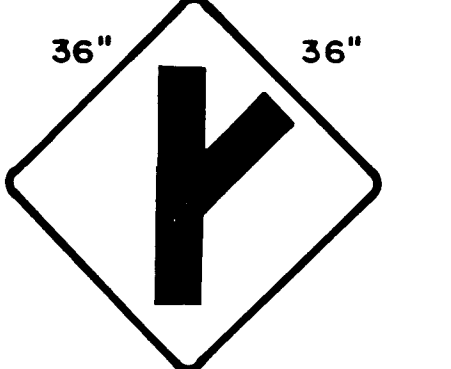
W11-8a
W11-8a = 48" X 48"



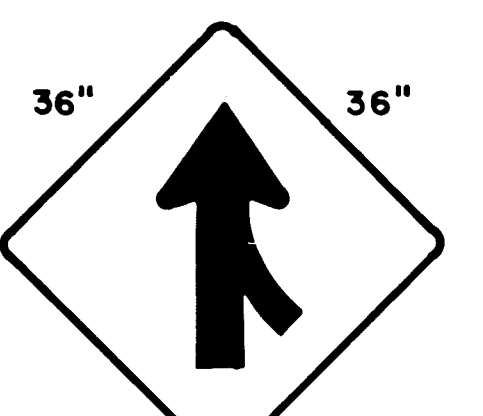
W14-3

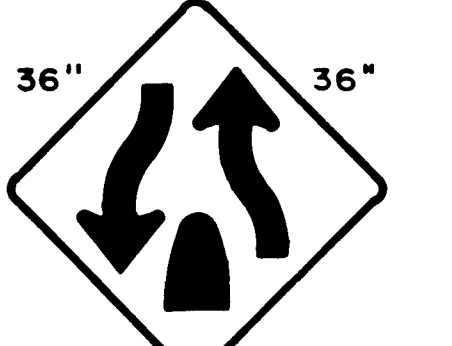
W1-5
W1-5a = 48" X 48"



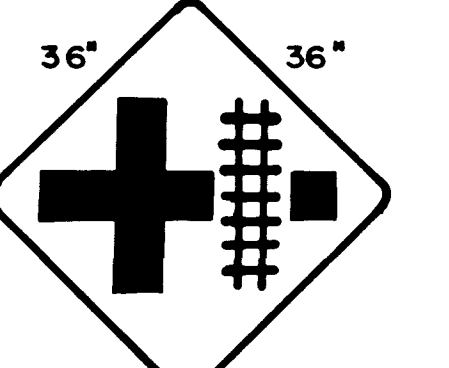
W2-3
W2-3a = 48" X 48"



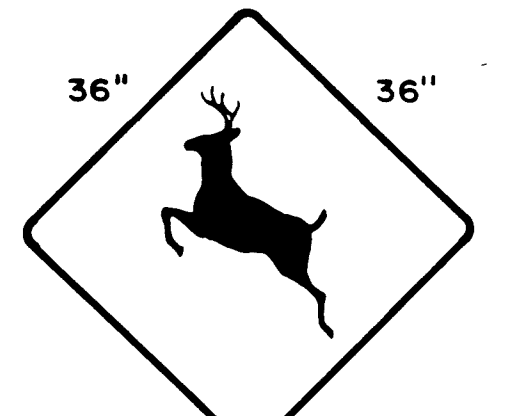
W4-1
W4-1a = 48" X 48"



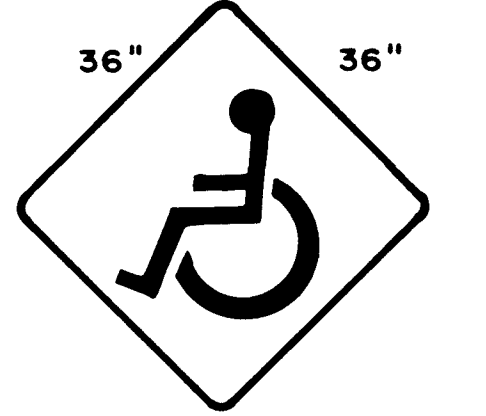
W6-2
W6-2a = 48" X 48"



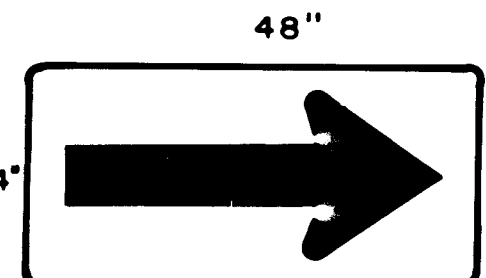
W10-2
W10-2a = 48" X 48"



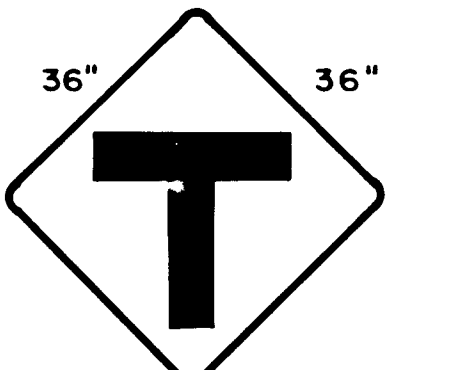
W11-3
W11-3a = 48" X 48"



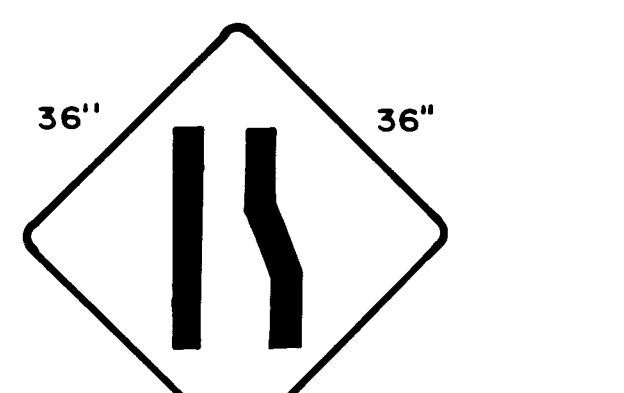
W11-9
W11-9a = 48" X 48"



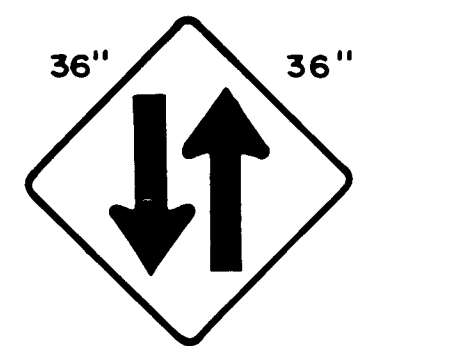
W1-6
W1-6a = 30" X 60"



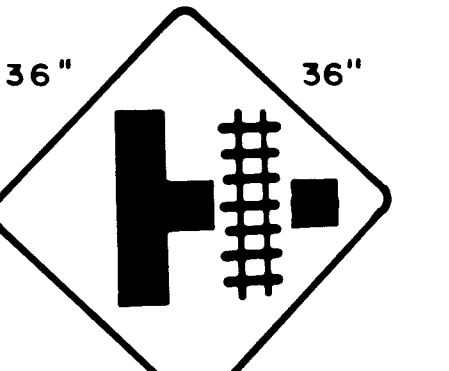
W2-4
W2-4a = 48" X 48"



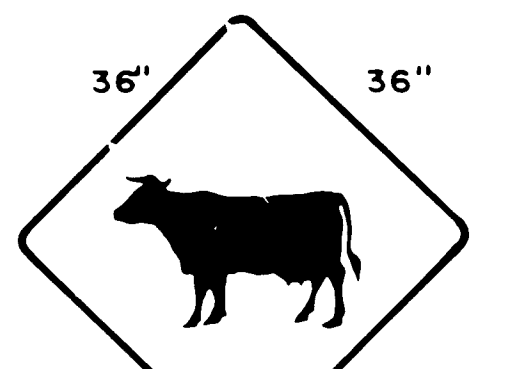
W4-2 (RT. OR LT.)
W4-2a = 48" X 48"



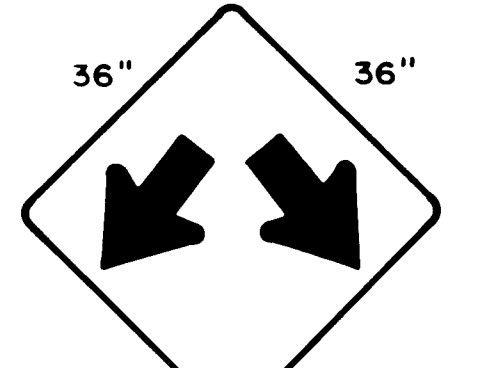
W6-3
W6-3a = 48" X 48"



W10-3
W10-3a = 48" X 48"



W11-4
W11-4a = 48" X 48"



W12-1
W12-1a = 48" X 48"

NOTES

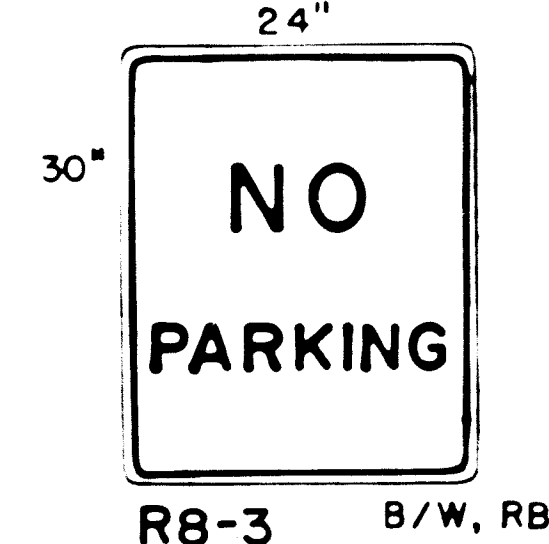
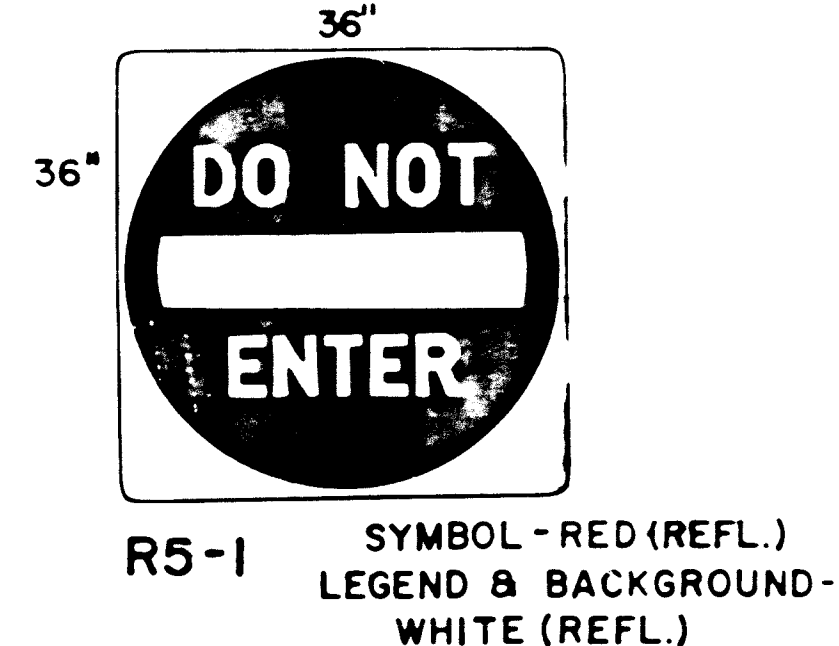
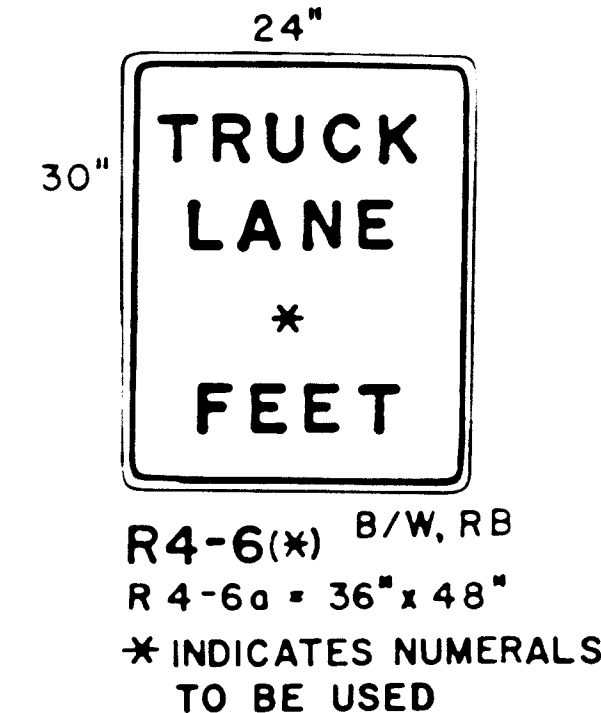
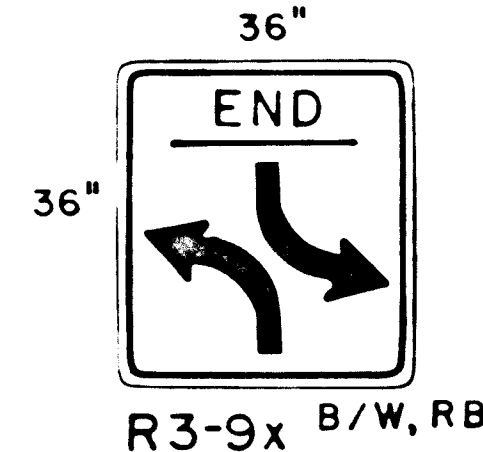
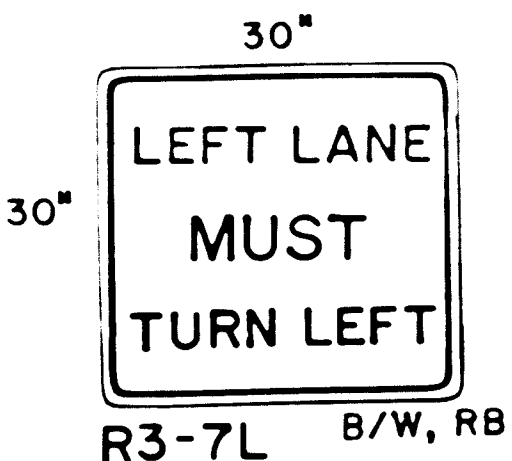
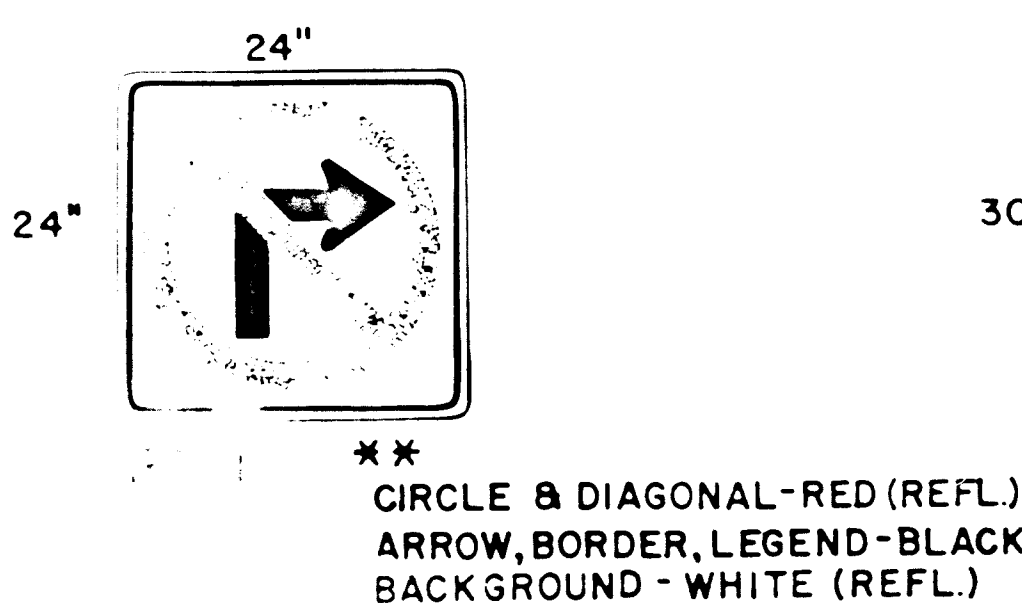
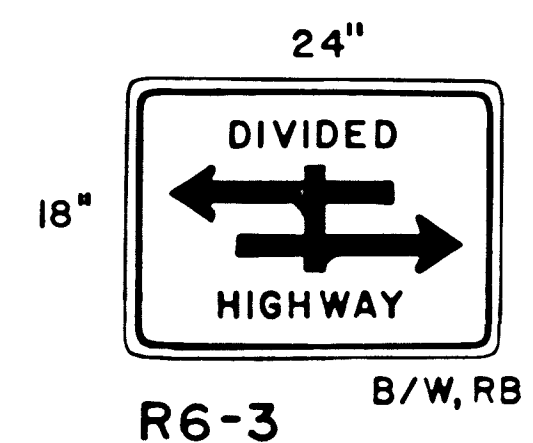
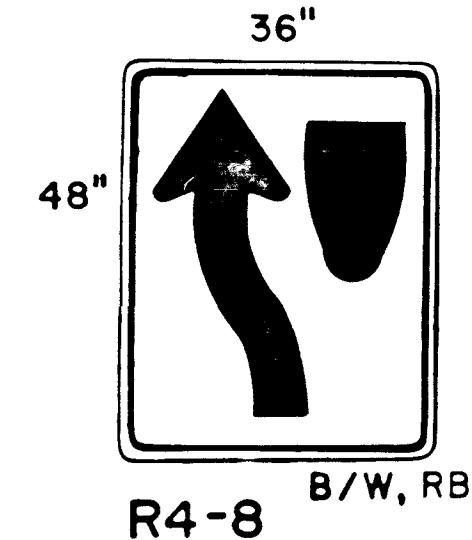
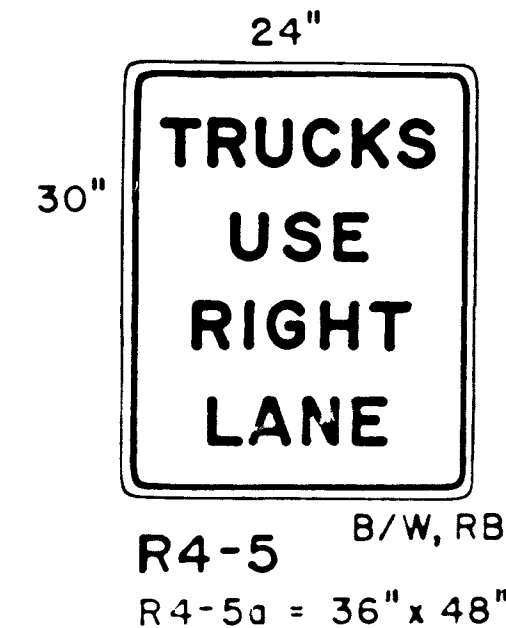
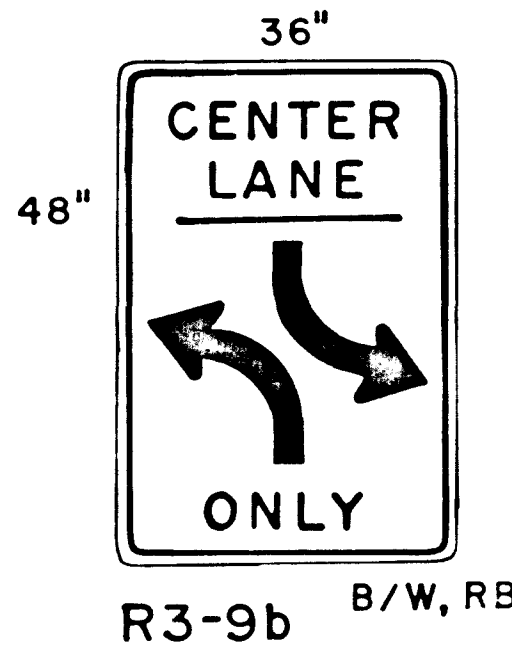
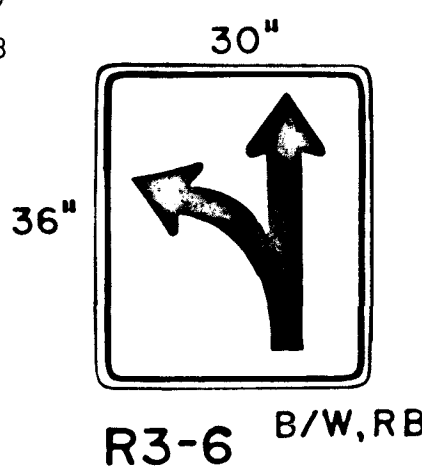
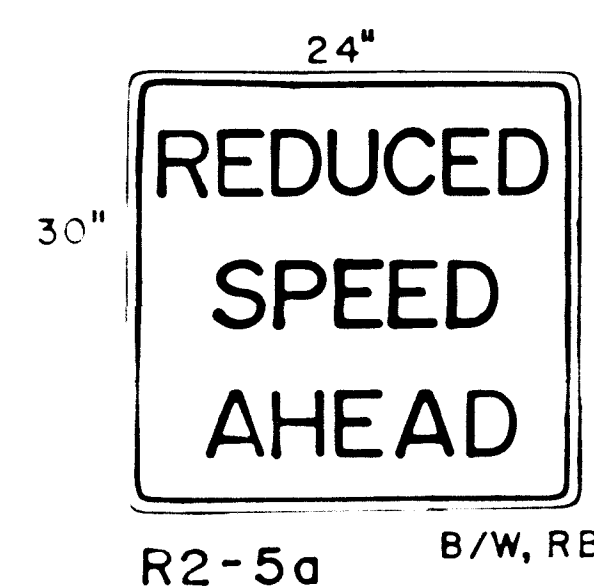
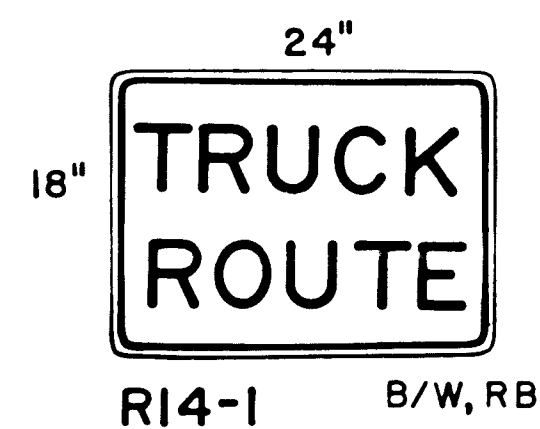
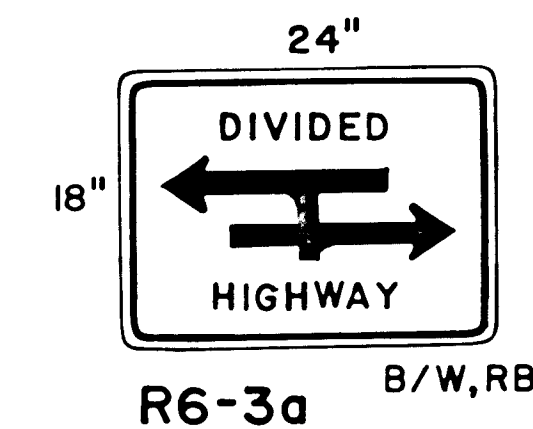
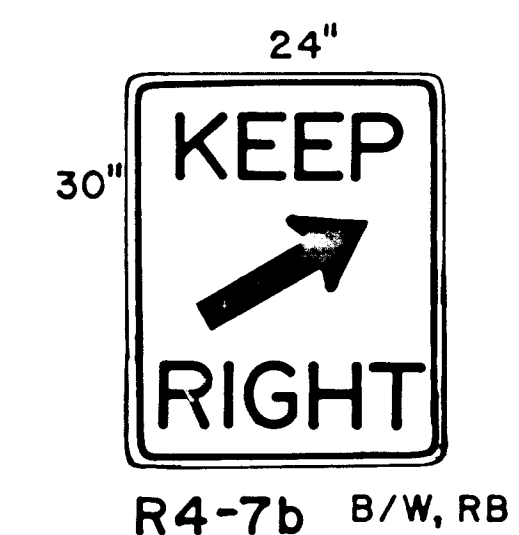
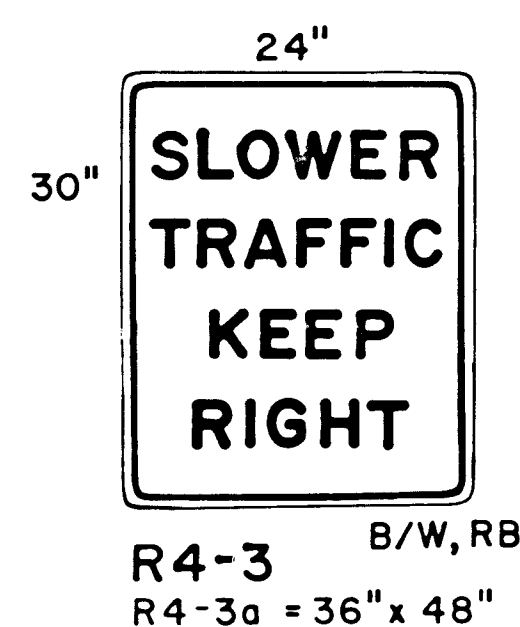
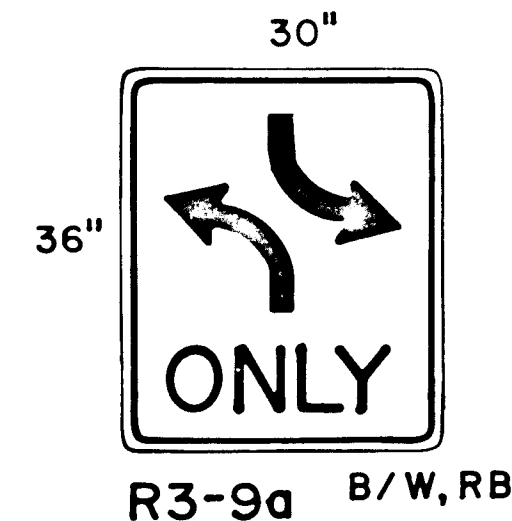
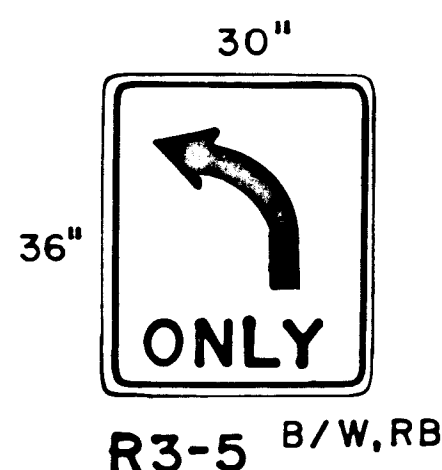
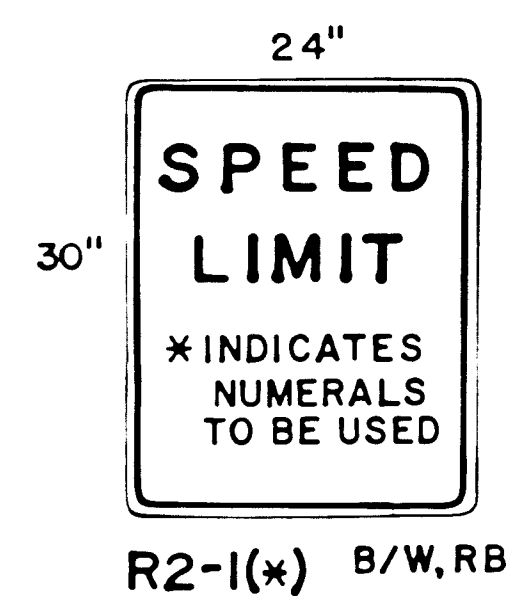
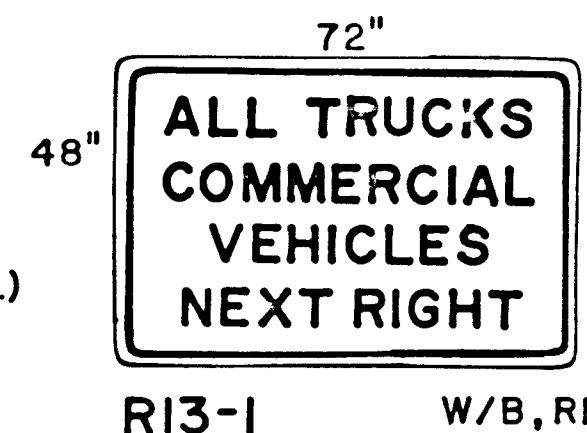
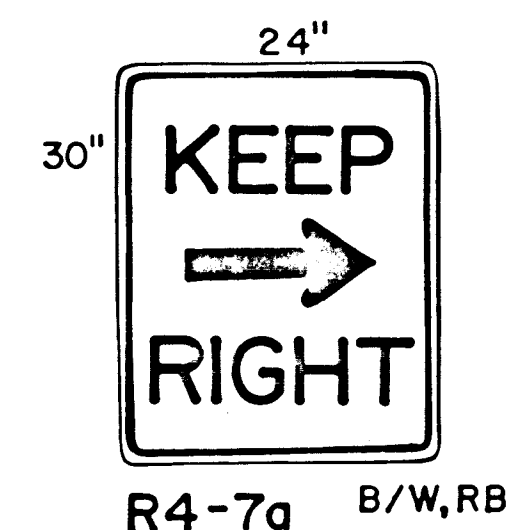
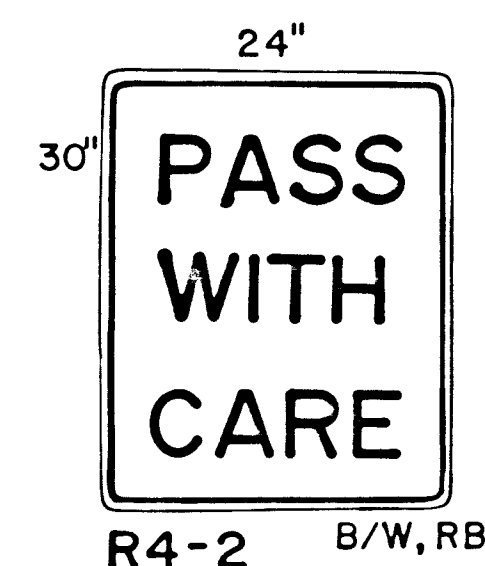
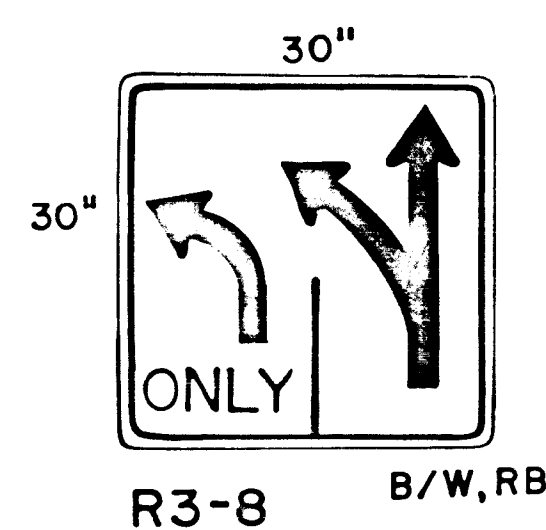
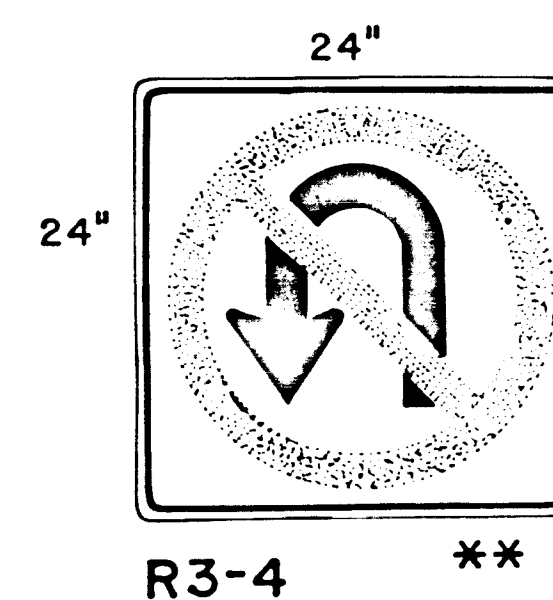
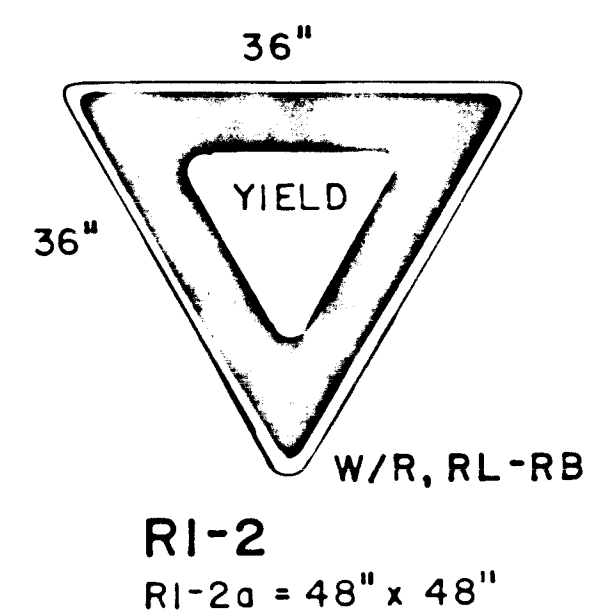
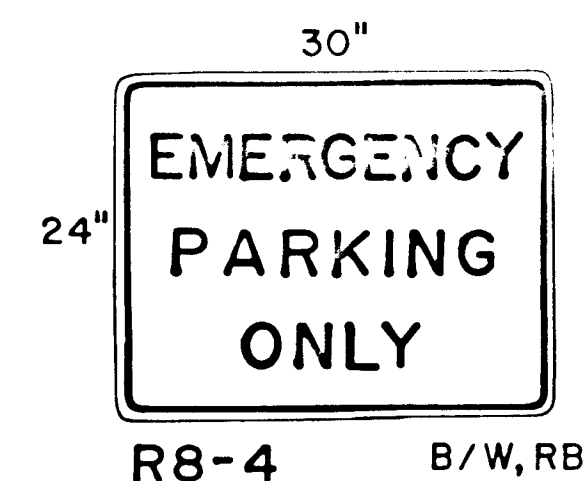
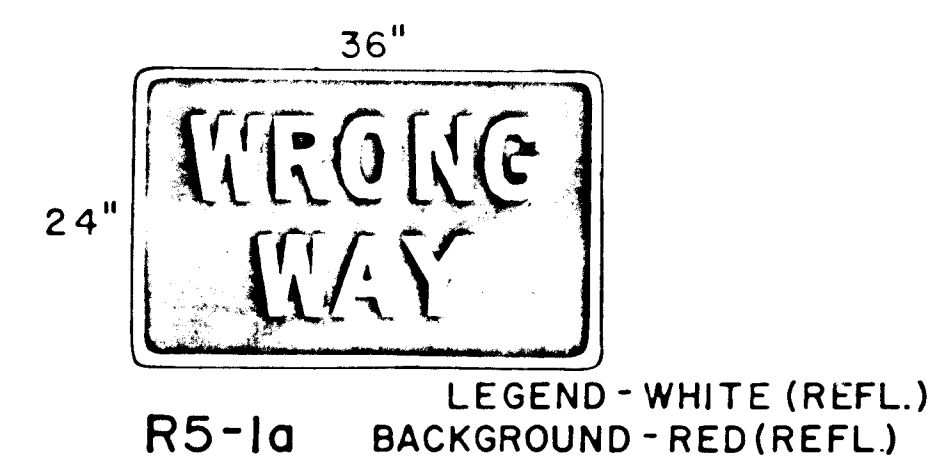
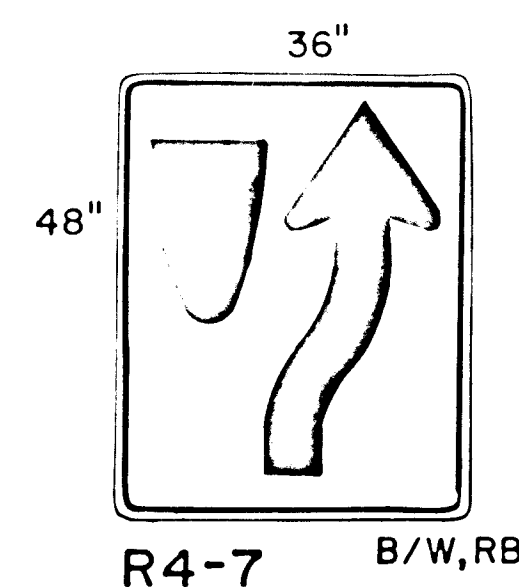
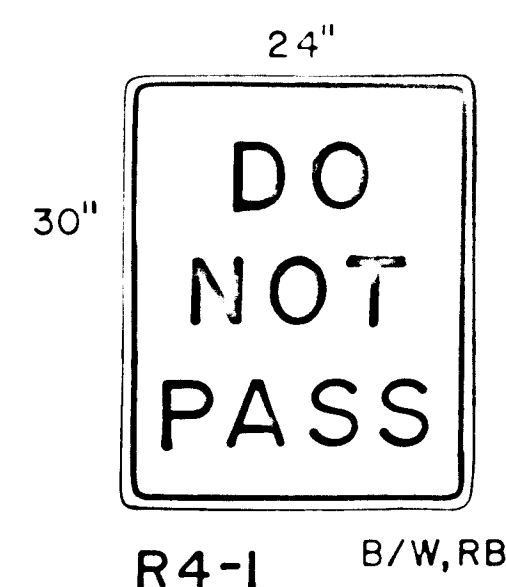
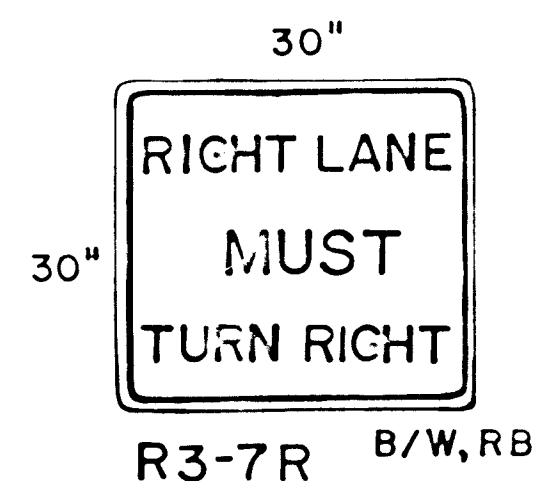
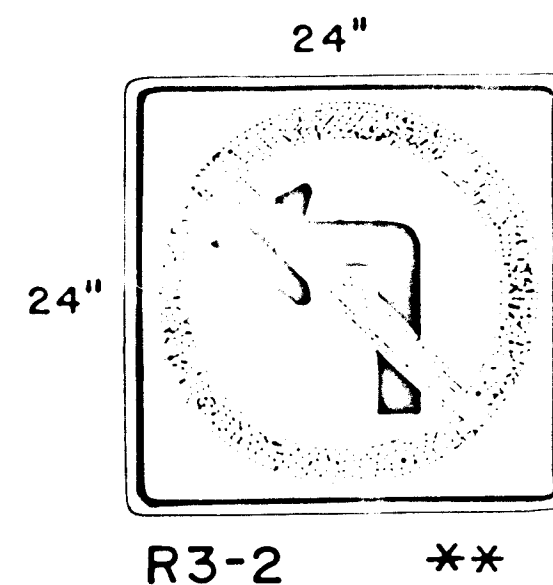
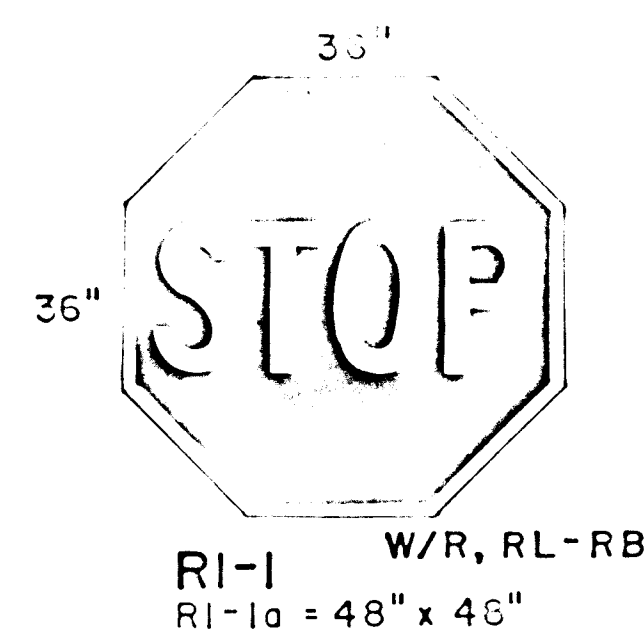
1. ALL "W" CODE SIGNS ARE BLACK LEG-
END WITH REFLECTIVE YELLOW BACK-
GROUND.
2. FOR FURTHER INFORMATION AND DETAIL
SEE THE STANDARD HIGHWAY SIGN MAN-
UAL AND THE CURRENT EDITION OF THE
M.U.C.D.

NO.	DESCRIPTION	DATE	BY
1	REVISIONS (OR CHANGE NOTICES)		
2			
3			

NEW MEXICO
STATE HIGHWAY DEPARTMENT
TRAFFIC DESIGN SECTION
STANDARD HIGHWAY
SIGN FACE DETAILS
"W" CODE SIGNS
M-4035(3)
C.O.A. 3203
SHEET 5-3

DESIGNED BY _____
CHECKED BY _____
DRAWN BY _____

6	NEW MEXICO	M-4035(3)	5-4
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NOTE:
FOR FURTHER INFORMATION AND
DETAILS SEE THE HIGHWAY SIGN
MANUAL AND THE CURRENT
EDITION OF THE M.U.T.C.D.

NO.	DESCRIPTION
1	REVISIONS OR CHANGE NOTICES
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NEW MEXICO
STATE HIGHWAY DEPARTMENT
TRAFFIC DESIGN SECTION
STANDARD HIGHWAY
SIGN FACE DETAILS
"R" CODE SIGNS

M-4035(3)
C.O.A. 3203

SHEET 5-4

• NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN

1. QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
2. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE M.M. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION). ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION AND THE CURRENT EDITION OF THE M.U.T.C.D.
3. EACH REGULATOR AND WARNING SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGN MANUAL (1979 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
4. BID ITEM STEEL POSTS AND BASE POSTS FOR PLYWOOD OR ALUMINUM PANEL SIGN. THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST CROSS-SECTION INDICATED. REFER TO NEW MEXICO STANDARDS: SN-75-1, SN-75-2, TBAC-001, AND TBAC-002.
5. WHERE EXISTING SIGNS ARE REPLACED WITH NEW BREAKAWAY EXTRUDED SIGNS, THE VOIDS LEFT FROM FOOTING REMOVAL ARE TO BE BACKFILLED AND THE PAD CONTOURED TO THE EXISTING TERRAIN. RESEEDING WILL NOT BE REQUIRED. THIS WORK IS CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
6. PLYWOOD PANEL SIGNS SHALL BE MADE FROM ONE CONTINUOUS SHEET. NO VERTICAL OR HORIZONTAL SPLICING WILL BE PERMITTED.
7. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER FOR APPROVAL, DRAWING OF SPECIAL SIGNS FACE DETAILS (THOSE OTHER THAN STANDARD M.U.T.C.D. SIGNS) SHOWING ARRANGEMENT AND SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE MESSAGE INDICATED ON PLANS.
8. POST LENGTHS AND SECTIONS ARE BASED ON A 10' CLEARANCE HEIGHT FROM THE TOP OF DRIVING LANE TO THE BOTTOM OF THE LOWEST SIGN. (EXCEPT WHERE INDICATED ON PLANS.) FINAL POST LENGTHS AND SECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE PROJECT MANAGER PRIOR TO THE FABRICATION OF SIGN POSTS.

ITEM NO.	BID ITEM	UNITS	PHASE VI	TOTAL
701010	PLYWOOD OR ALUMINUM PANEL SIGN	SO. FT.	95	95
701081	REMOVING & RESETING PLYWOOD OR ALUMINUM PANEL SIGN	EACH		
701101	STEEL POST & BASE POST FOR PLYWOOD OR ALUMINUM PANEL SIGN	LIN. FT.	156	156
703100	TRAFFIC MARKER GUIDE	EACH		
703101	TRAFFIC MARKER HAZARD	EACH		
704010	REFLECTORIZED PAINTED MARKING	LIN. FT.	13,000	13,000
717010	NON-REFLECTIVE PAVEMENT MARKER TYPE "A"	EACH		
717011	NON-REFLECTIVE PAVEMENT MARKER TYPE "AY"	EACH		
717014	REFLECTIVE PAVEMENT MARKER TYPE "D"	EACH		
717015	REFLECTIVE PAVEMENT MARKER TYPE "G"	EACH		
717017	REFLECTIVE PAVEMENT MARKER TYPE "H"	EACH		
717018	REFLECTIVE PAVEMENT MARKER TYPE "J"	EACH		
718002	REFLECTIVE PLASTIC PAVEMENT STRIPE 8"	LIN. FT.	1030	1030
718004	REFLECTIVE PLASTIC PAVEMENT STRIPE 12"	LIN. FT.	220	220
718007	REFLECTORIZED PLASTIC PAVEMENT STRIPE 24"	LIN. FT.		
718010	REFLECTORIZED COMBO. ARROW THRU AND RIGHT	EACH	4	4
718011	REFLECTORIZED COMBO. ARROW THRU AND LEFT	EACH		
718015	REFLECTORIZED RIGHT ARROW	EACH	4	4
718020	REFLECTORIZED LEFT ARROW	EACH	10	10
718026	REFLECTORIZED WORD "STOP"	EACH		
718027	REFLECTORIZED WORD "AHEAD"	EACH		
718028	REFLECTORIZED WORD "SCHOOL"	EACH		
718029	REFLECTORIZED WORD "SLOW"	EACH		
718030	REFLECTORIZED WORD "XING"	EACH		
718031	REFLECTORIZED WORD "PED"	EACH		
718035	REFLECTORIZED PLASTIC RAILROAD CROSSING	EACH		
718035	REFLECTORIZED WORD "ONLY"	EACH	6	6
718031	REFLECTORIZED THRU ARROW	EACH	14	14

△ - INDICATES 2 COAT APPLICATION

[illegible]

<i>AS-BUILT INFORMATION</i>	
CONTRACTOR	DATE
WORK	DATE
INSPECTED BY	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS	DATE
CORRECTED BY	DATE
<i>MICRO-FILM INFORMATION</i>	
RECORDED BY	DATE
NO.	

[illegible][illegible]

ENGINEER'S SEAL

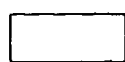
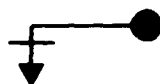
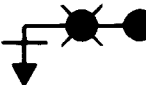
Richard Lewis
06/15/10

[illegible]

TITLE: TRAFFIC SIGNAL GENERAL NOTES, LEGEND & ESTIMATED QUANTITIES 2nd STREET/CANDELARIA
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PROJECT M-4035 (3)	MAP NO.	SHEET	OF
NO. COA PROJ. No. 3203	G-14	6-1	

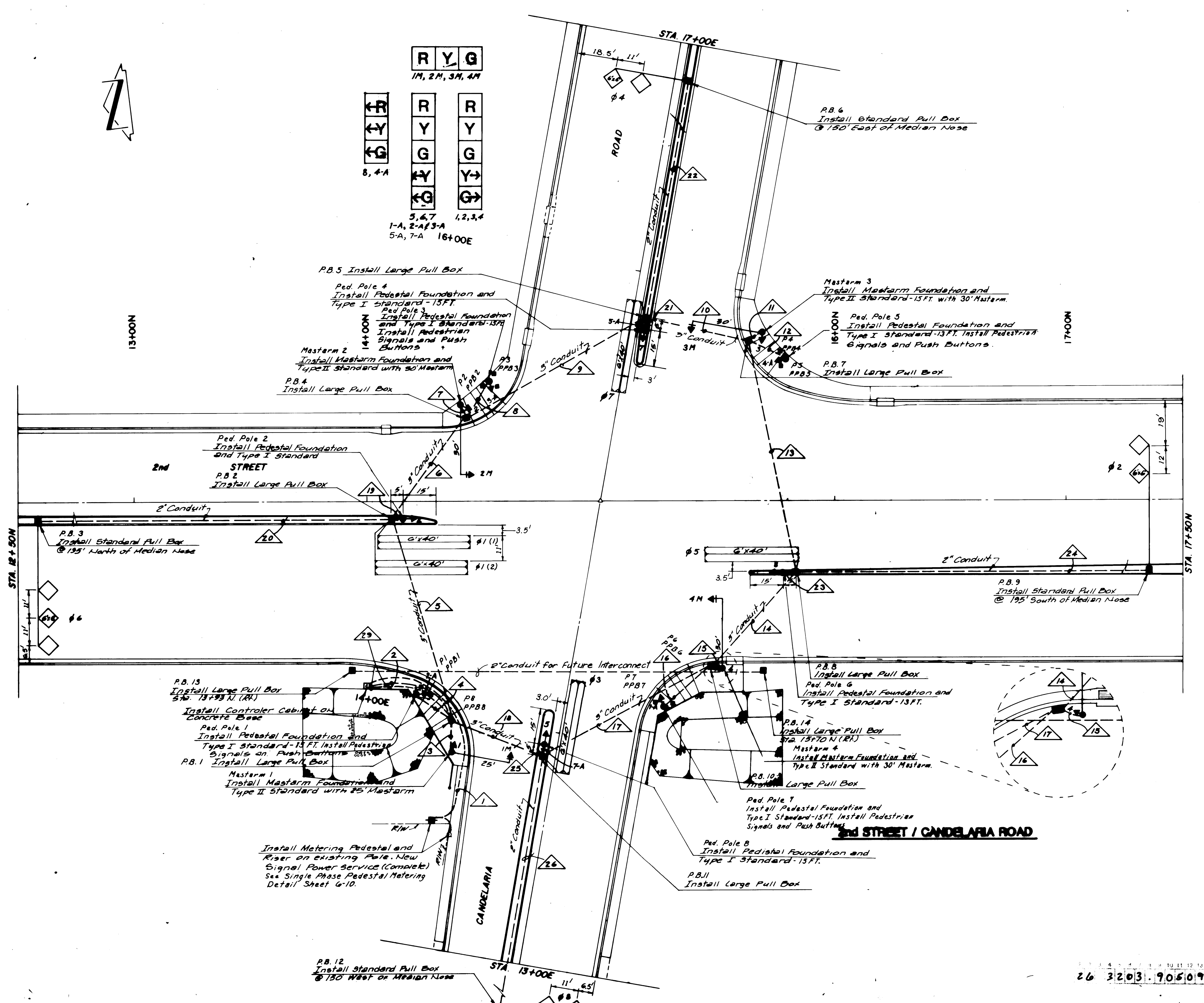
LEGEND

PROPOSED	EXISTING	ITEM
		PULL BOX
		SIGNAL POLE
		SERVICE POLE
		CONTROLLER CABINET
		SPLICE CABINET
		CONDUIT RUN
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
		CONDUIT RUN NUMBER
		POLE WITH MASTARM, TRAFFIC SIGNAL AND BACKPLATE
		COMBINATION POLE WITH LUMINAIRE AS INDICATED
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		TRAFFIC MANHOLE

GENERAL NOTES

1. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
2. MOUNT CONTROLLER SO DOOR FACES TRAFFIC.
3. SHOWN DISTANCES TO TRAFFIC SIGNAL POLES TO BE MEASURED FROM FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL ITEMS UNDER SECTION 707-SIGNAL AND LIGHTING STANDARDS SHALL COMPLY TO THE "BUY AMERICA PROVISION" AS COVERED UNDER SPECIAL PROVISION MODIFYING SECTION 106-CONTROL OF MATERIALS JUNE 24, 1988.
5. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH CROSSLINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF I.M.S.A. SPECIFICATIONS NO. 51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAW CUT CORNERS TO HOLD THE WIRE.) A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFTO SHALL BE AN ACCEPTABLE SEALANT ALTERNATE.
6. COVER ENTIRE SIGNAL HEADS WHEN NECESSARY WITH BURLAP CLOTH OR BAGS AS REQUIRED BY SECTION 712.031 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (EDITION OF 1984)
7. BEFORE CONDUIT CAN BE TRENCHED, BORED, DRILLED, OR PUSHED UNDER THE ROADWAY, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES.
8. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR TYPE WITH STEEL OR REINFORCED POLYMER MORTAR COVERS. CONCRETE COVERS AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
9. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER.
10. CONTROLLERS SHALL CONFORM TO NMS&TD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. EXCEPT SUBSECTION 714.024(B) 8K SHALL BE DELETED. FIELD FUSED OUTPUT SHALL NOT BE INCLUDED.
11. THE CONTRACTOR IS HEREBY ADVISED THAT THE INTERSECTION SIGNALS SHALL NOT BE TURNED ON UNTIL THE SIGNAL IS COMPLETELY INSTALLED. INCLUDING FULLY ACTUATED OPERATION (INCLUDING ALL LOOPS AND PUSHBUTTON WIRING IS COMPLETE AND OPERATIONAL).
12. FLASHING OPERATION IS NOT CONSIDERED THE BEGINNING OF THE FIELD TESTING PERIOD.
13. ALL LOOPS SHOWN SHALL BE CENTERED IN THE APPROPRIATE TRAFFIC LANE AS DETERMINED FROM THE FINAL STRIPING PLAN.

TRAFFIC.CITY.SIGNOTES



STATE NEW MEXICO		PROJECT NO. 403531	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION)		SHEET NO. 6-4	
TITLE: SIGNAL LAYOUT PLAN 2nd STREET / CANDELARIA ROAD			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	R. W. Kane	9-6-90	Liquid Waste
A.C.E. Design	NA		Traffic
A.C.E. Hydrology	NA		Water
PROJECT	403531	MAP NO.	6-4
NO.	C.O.A. 3203	SHEET	6-4
DESIGNED BY R.L. DRAWN BY G.M.C. CHECKED BY R.L.			
DATE 9-5-90 DATE 9/5/90 DATE 9/5/90			
REVISIONS			
NO.	DATE	REMARKS	BY
1	9-5-90	DESIGN	R.L.
ENGINEER'S SEAL [Signature]			
SURVEY INFORMATION		BENCH MARKS	
FIELD NOTES	DATE	NO.	BY
AS BUILT INFORMATION		CONTRACTOR	
WORK	DATE	NO.	BY
REVISIONS	DATE	NO.	BY
FIELD	DATE	NO.	BY
CONSTRUCTION	DATE	NO.	BY
CORRECTED BY	DATE	NO.	BY
MICRO-FILM	DATE	NO.	BY
INFORMATION	DATE	NO.	BY

CABLE RUNS

CONDUIT RUNS

FUNCTION CHART

CABLE RUNS					CONDUIT RUNS					FUNCTION CHART				
CABLE	LENGTH	CONDUCTOR	AWG	TYPE	REMARKS	CONDUIT	LENGTH	SIZE	TYPE	REMARKS	CON-DUCTOR	BASE COLOR	TRACER	FUNCTION
1	99'	2-1/C	#6	THWN	SERVICE	1	95'	2"	REC	FOR SERVICE	1.	BLACK	-	SPARE
2	43'	2-20/C	14	MCC		2	45'	3"	"		2.	WHITE	-	SPARE
		1/C	10	THWN		29	45'	3"	"	FOR LOOP LEAD-IN CABLE	3.	RED	-	Ø1 RED
		5/C	14	MCC	P.P.B.	3	18'	2"	"		4.	GREEN	-	Ø1 GREEN
29	9 LOOP LEAD-IN CABLES					4	25'	2"	"		5.	ORANGE	-	Ø1 YELLOW
3	22'	7/C	14	MCC		5	95'	3"	"		6.	BLUE	-	Ø1 WALK
4	29'	7/C	14	MCC		6	58'	3"	"		7.	WHITE	BLACK	Ø1 Dont Walk
		5/C	14	MCC	P.P.B.	7	12'	2"	"		8.	RED	BLACK	Ø2 RED
5	99'	2-20/C	14	MCC		8	24'	2"	"		9.	GREEN	BLACK	Ø2 GREEN
		1/C	10	THWN		9	94'	3	"		10.	ORANGE	BLACK	Ø2 YELLOW
		5/C	14	MCC	P.P.B.	10	50'	3	"		11.	BLUE	BLACK	Ø2 WALK
6	3 LOOP LEAD-IN CABLES					11	12'	2"	"		12.	BLACK	WHITE	Ø2 Dont Walk
	62'	2-20/C	14	MCC		12	23'	2"	"		13.	RED	WHITE	Ø3 RED
		1/C	10	THWN		13	107'	3"	"		14.	GREEN	WHITE	Ø3 GREEN
7	16'	7/C	14	MCC	P.P.B.	14	60'	3"	"		15.	BLUE	WHITE	Ø3 YELLOW
8	28'	7/C	14	MCC		15	10'	2"	"		16.	BLACK	RED	Ø4 RED
		5/C	14	MCC	P.P.B.	16	32'	2"	"		17.	WHITE	RED	Ø4 GREEN
9	98'	2-20/C	14	MCC		17	87'	3"	"		18.	ORANGE	RED	Ø4 YELLOW
		1/C	10	THWN		18	47'	3"	"		19.	BLUE	RED	Ø4 WALK
		5/C	14	MCC	P.P.B.	19	10'	2"	"		20.	RED	GREEN	Ø4 Dont Walk
10	54'	2-20/C	14	MCC		20	157'	2"	"		21.	ORANGE	GREEN	SPARE
		1/C	10	THWN		21	10'	2"	"		NOTE: IDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT. 5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY).			
		5/C	14	MCC	P.P.B.	22	108'	2"	"		1.	BLACK	-	Ø2 PPB
11	2 LOOP LEAD-IN CABLES					23	10'	2"	"		2.	WHITE	-	COMMON
	16'	7/C	14	MCC		24	157'	2"	"		3.	RED	-	Ø4 PPB
12	27'	7/C	14	MCC		25	10'	2"	"		4.	GREEN	-	Ø6 PPB
		5/C	14	MCC	P.P.B.	26	108'	2"	"		5.	ORANGE	-	Ø8 PPB
13	111'	2 LOOP LEAD-IN CABLES				MISC. 63' 1" STUBOUTS FOR LOOP DETECTORS					NOTE: WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. AT EACH END OF CABLE. 6" BACK FOR IDENTIFICATION.			
14	64'	7/C	14	MCC		CABLE RUNS (CONT.)					CABLE RUNS (CONT.)			
15	14'	7/C	14	MCC		MASTARM 1	40'	5C	14	MCC	SIGNAL 1M			
16	36'	7/C	14	MCC			15'	7C	14	MCC	SIGNAL 1			
		5/C	14	MCC	P.P.B.	MASTARM 2	50'	5C	14	MCC	SIGNAL 2M			
17	91'	2-20/C	14	MCC			15'	7C	14	MCC	SIGNAL 2			
		1/C	10	THWN		MASTARM 3	50'	5C	14	MCC	SIGNAL 3M			
		5/C	14	MCC	P.P.B.		15'	7C	14	MCC	SIGNAL 3			
18	4 LOOP LEAD-IN CABLES					MASTARM 4	50'	5C	14	MCC	SIGNAL 4M			
	51'	2-20/C	14	MCC			15'	7C	14	MCC	SIGNAL 4			
		1/C	10	THWN		PED POLE 1	15'	7C	14	MCC	SIGNAL 2A			
		5/C	14	MCC	P.P.B.		12'	5C	14	MCC	SIGNAL P1,P8			
19	6 LOOP LEAD-IN CABLES						5'	5C	14	MCC	PPB 1, PPB 8			
	14'	7/C	14	MCC		PED POLE 2	15'	7C	14	MCC	SIGNAL 6			
20	161'	1 LOOP LEAD-IN CABLE				PED POLE 3	15'	7C	14	MCC	SIGNAL 3A			
21	14'	2-7/C	14	MCC			12'	5C	14	MCC	SIGNAL P2,P3			
22	112'	1 LOOP LEAD-IN CABLE					5'	5C	14	MCC	PPB2, PPB 3			
23	14'	7/C	14	MCC		PED POLE 4	15'	7C	14	MCC	SIGNAL 7			
24	161'	1 LOOP LEAD-IN CABLE					15'	7C	14	MCC	SIGNAL 5A			
25	14'	2-7/C	14	MCC										
26	112'	1 LOOP LEAD-IN CABLE												

CONTRACTOR	DATE	INSPECTOR	DATE	FIELD	DATE	RECORDED BY	DATE	NO.

NO.	DATE	REMARKS	BY

DESIGNED BY	DATE	8-9-90
DRAWN BY	DATE	9/5/90
CHECKED BY	DATE	9/15/90

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC	Chairman	9-6-90	Liquid Waste	R.W. Kane	9-6-90
			Traffic	R.W. Kane	9-6-90
			Water	R.W. Kane	9-6-90

FLASH CONDITION *

RED BALL HEADS ALL

* (MINIMUM OF 24 HOURS) MAXIMUM TO BE DETERMINED BY THE PROJECT MANAGER.

BACK UP TIME SETTING*

	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8
MINIMUM INITIAL	3	8	3	8	3	8	3	8
VEHICLE EXTENSION	1.5	3	1.5	3	1.5	3	1.5	3
MAXIMUM 1	15	30	15	30	15	30	15	30
MAXIMUM 2	20	40	20	40	20	40	20	40
YELLOW CHANGE	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
RED CLEAR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WALK	0	7	0	7	0	7	0	7
PEDESTRIAN CLEAR	0	18	0	21	0	16	0	25
OPERATION	MEM	MIN	MEM	MEM	MEM	MIN	MEM	MEM
	OFF	RECALL	OFF	OFF	OFF	RECALL	OFF	OFF

* Operational Timing Shall Be Determined By City Of Albuquerque Traffic Engineering Division And Set In Controller Before New Controller Is Placed Into Operation.

DETECTORS

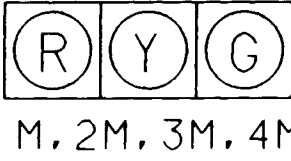
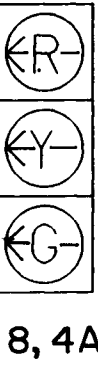
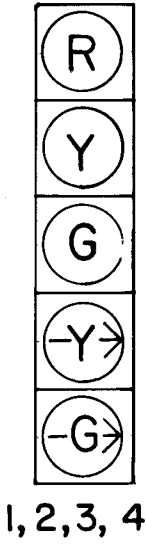
UNIT	PHASE (#)	MODE
1 CHAN 1	1 (1)	PRESENCE
CHAN 2	1 (2)	PRESENCE
2 CHAN 1	2	PRESENCE
CHAN 2	6	PRESENCE
3 CHAN 1	3	PRESENCE
CHAN 2	7	PRESENCE
4 CHAN 1	4	PRESENCE
CHAN 2	8	PRESENCE
5 CHAN 1	5	PRESENCE
CHAN 2		

INITIALIZATION

PHASE 2 AND 6 YELLOW
CLEARANCE INTERVAL

PEDESTRIAN PUSH BUTTON
DESIGNATION SIGNS

PPB 1, 3, 5, 7 R10 - 4b R
PPB 2, 4, 6, 8 R10 - 4b L



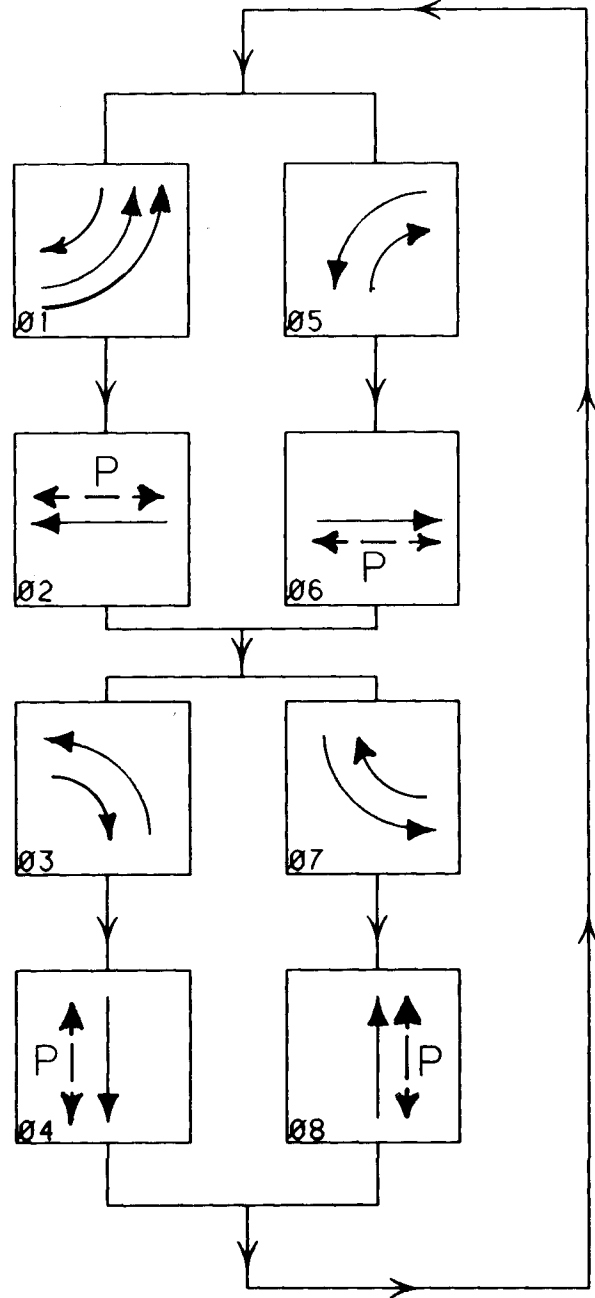
P1, P2, P3, P4
P5, P6, P7, P8

SIGNAL HEAD DETAILS

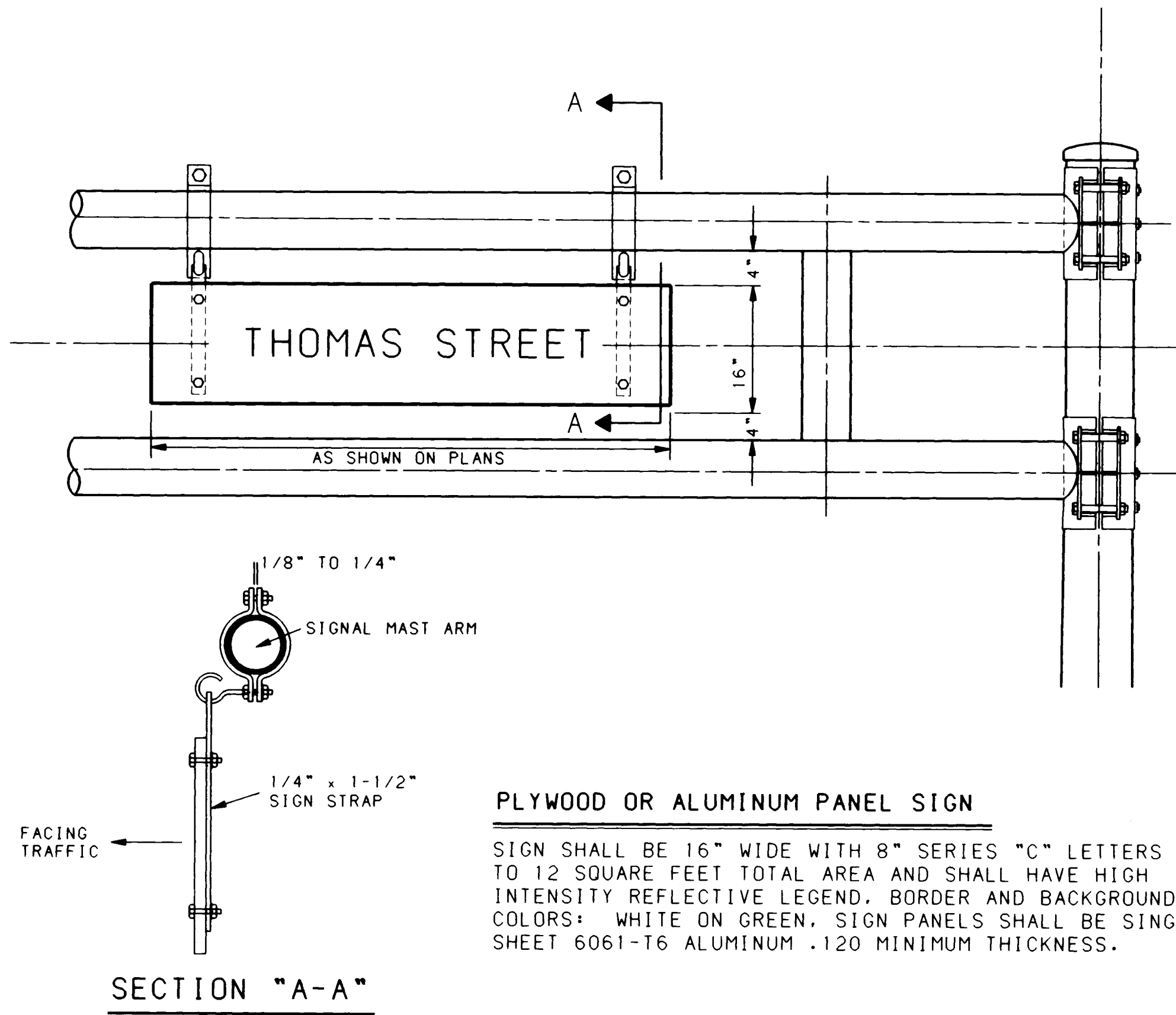
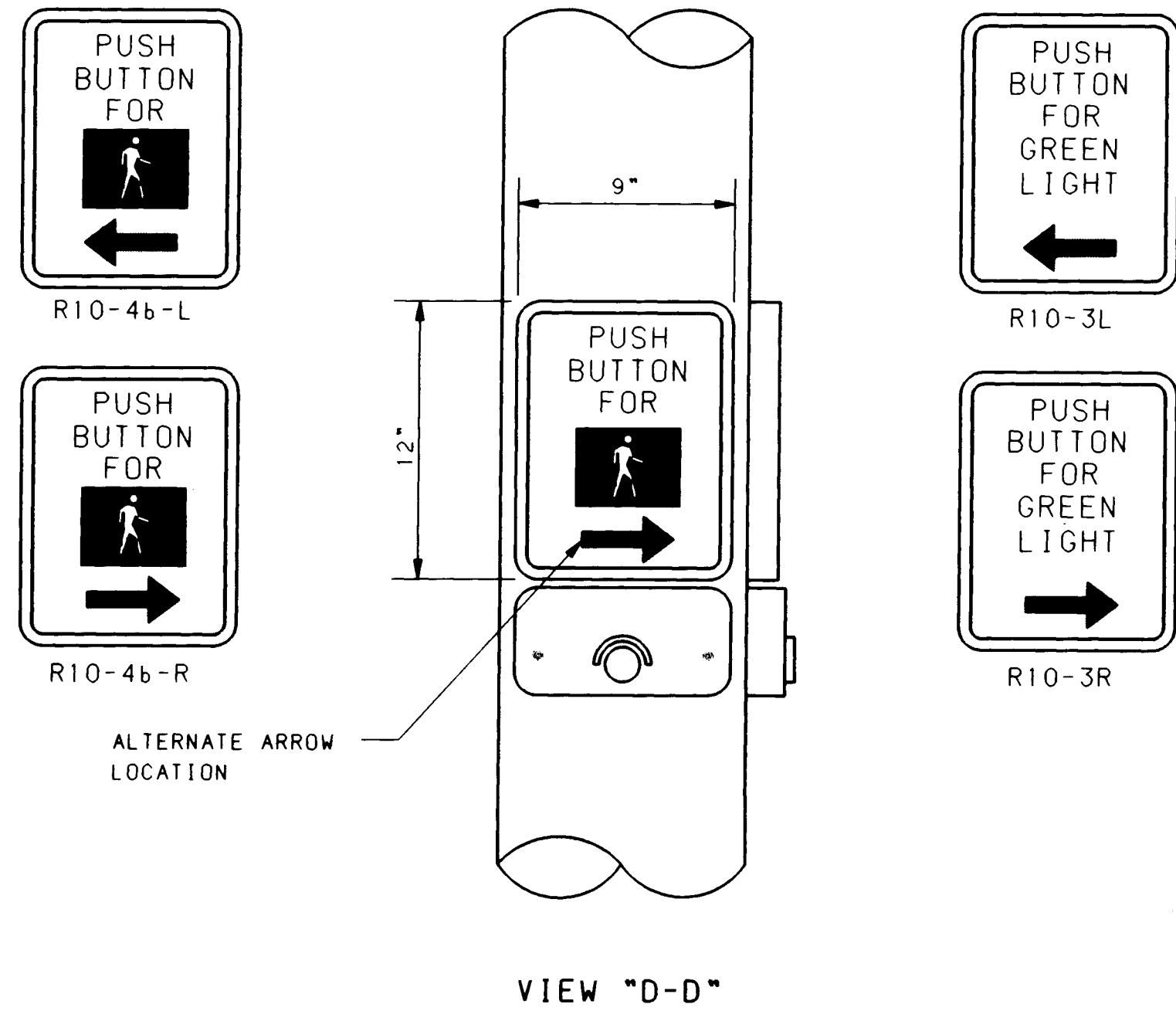
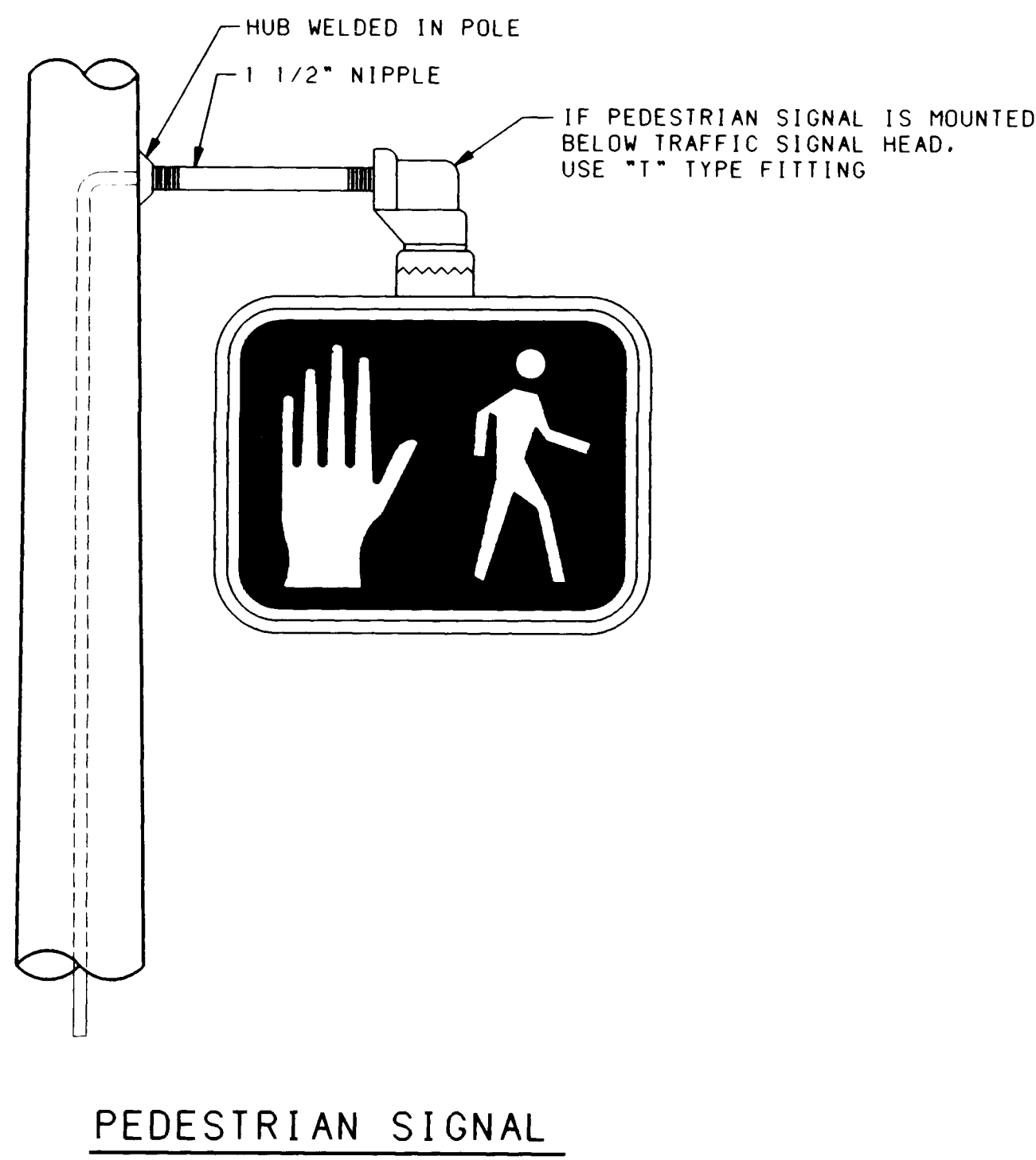
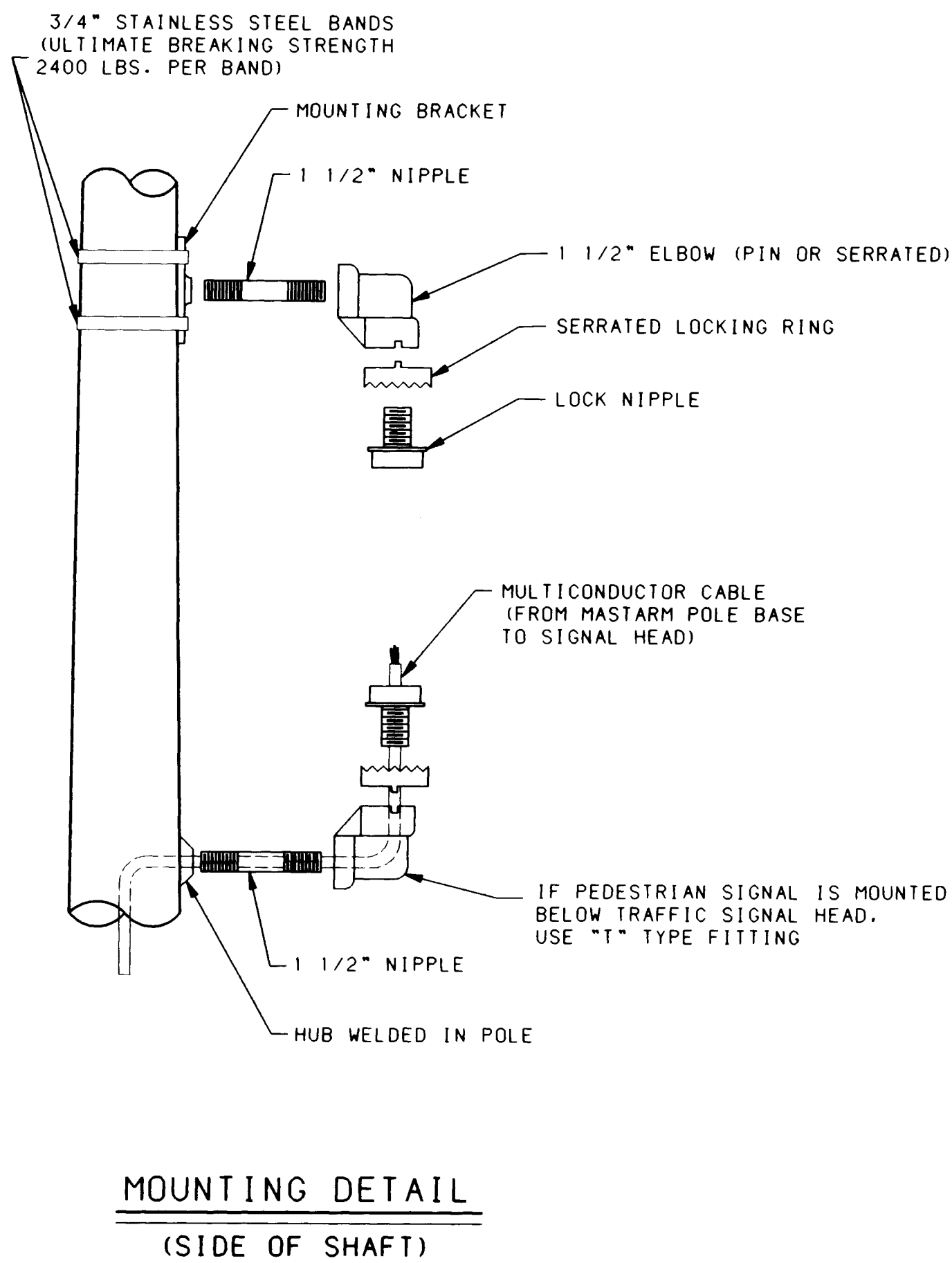
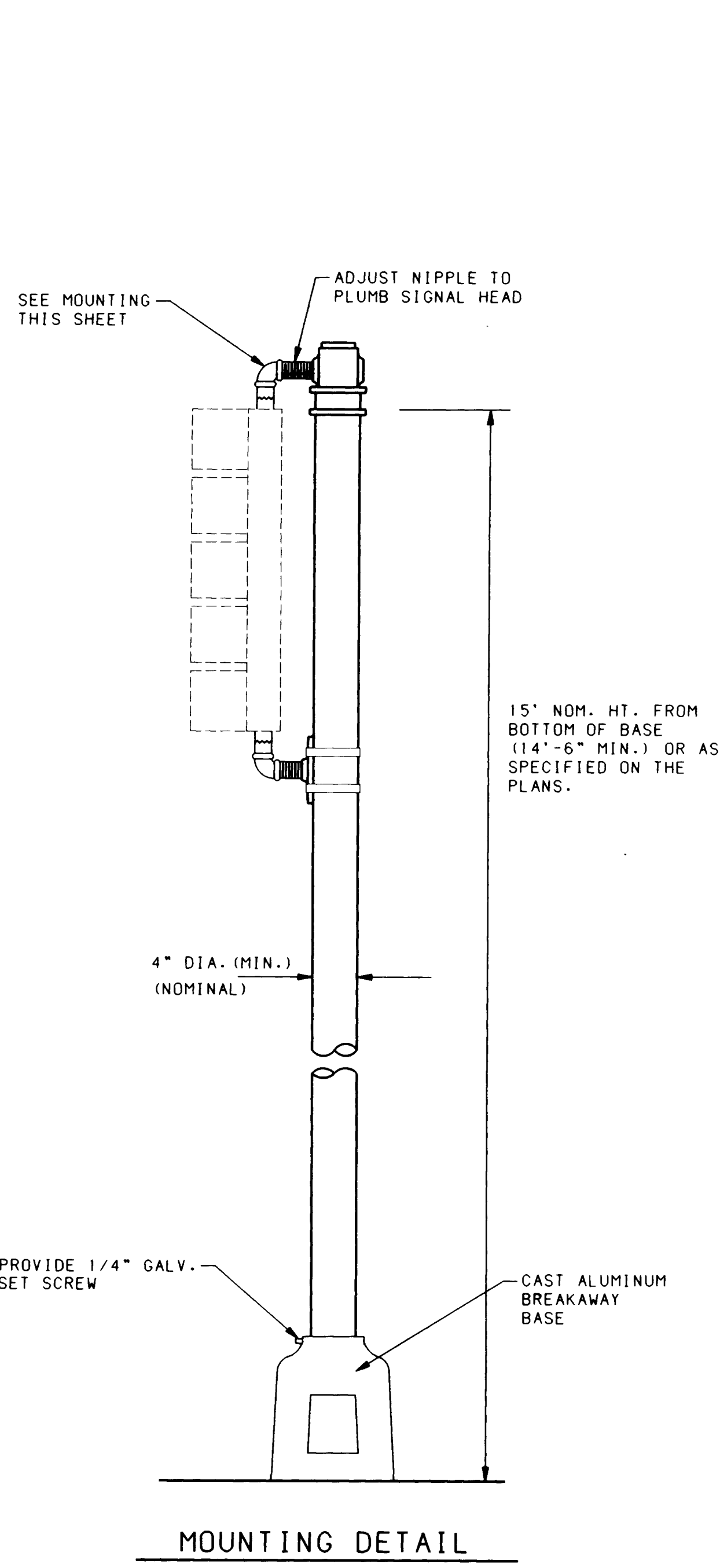
SIGNAL PHASING

LOOP LEAD IN CABLE

FROM	TO	LENGTH
PB-2	CONTROLLER	2 x 148 = 296'
PB-3	CONTROLLER	309'
PB-5	CONTROLLER	420'
PB-6	CONTROLLER	528'
PB-8	CONTROLLER	255'
PB-9	CONTROLLER	416'
PB-11	CONTROLLER	100'
PB-12	CONTROLLER	212'
	TOTAL	2536'



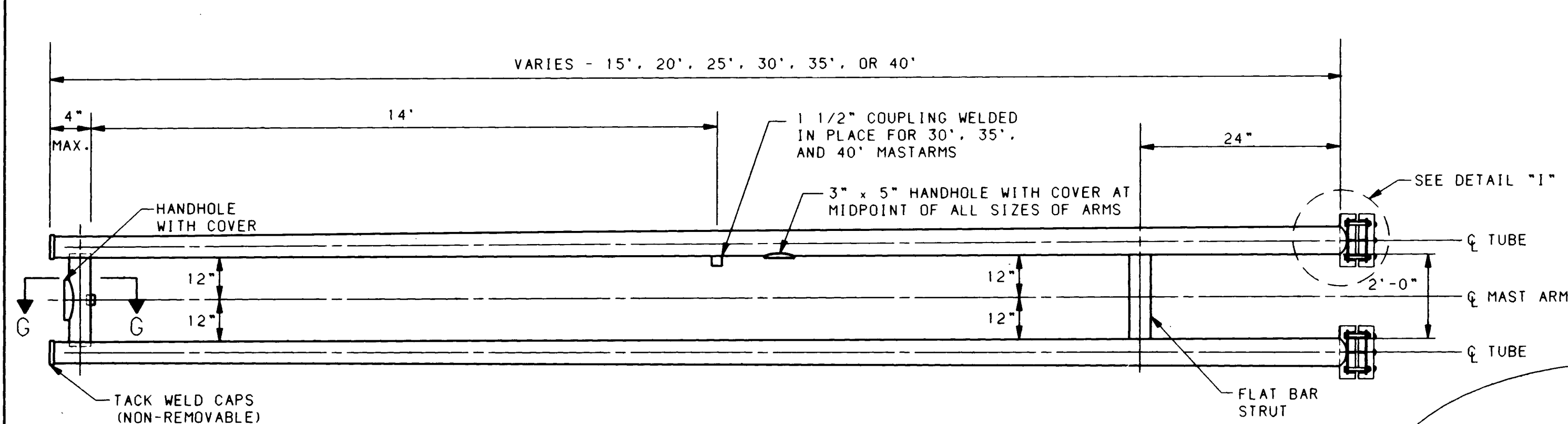
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TRAFFIC SIGNAL MISCELLANEOUS ITEMS 2nd STREET/CANDELARIA			
DRC Chairman	APPROVALS	ENGINEER	DATE
PROJECT NO.	M-4035(3) C.O.A. 3203	MAP NO. G-14	SHEET OF 6-4



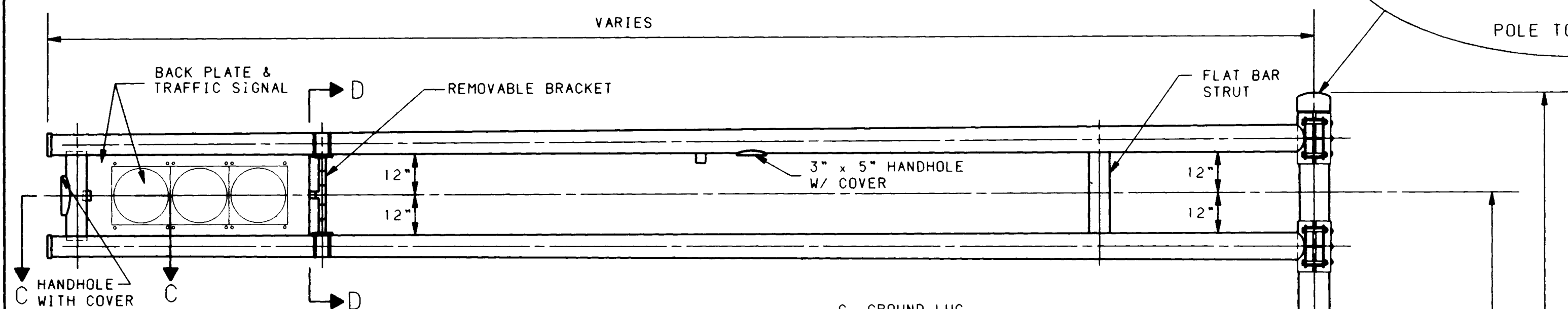
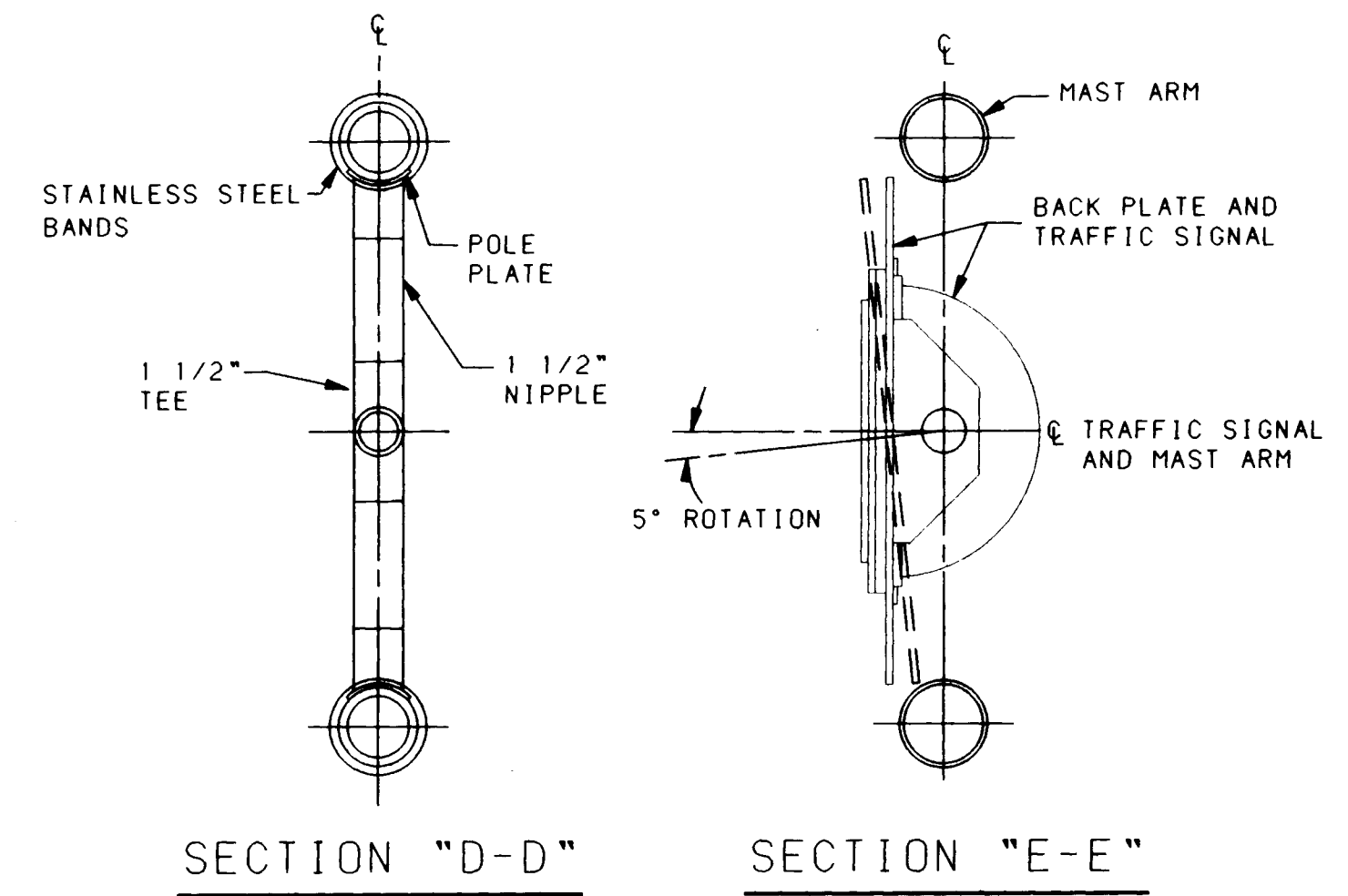
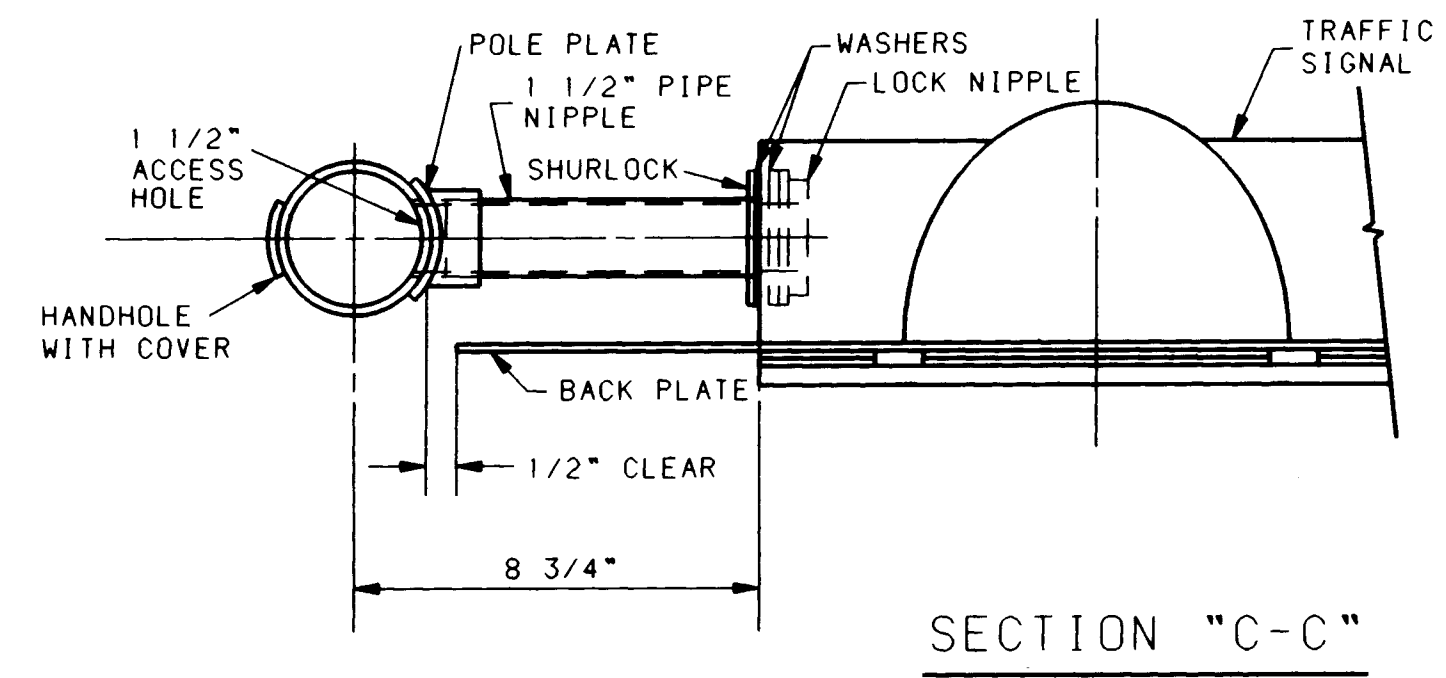
PLYWOOD OR ALUMINUM PANEL SIGN

SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS UP TO 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, BORDER AND BACKGROUND. COLORS: WHITE ON GREEN. SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.

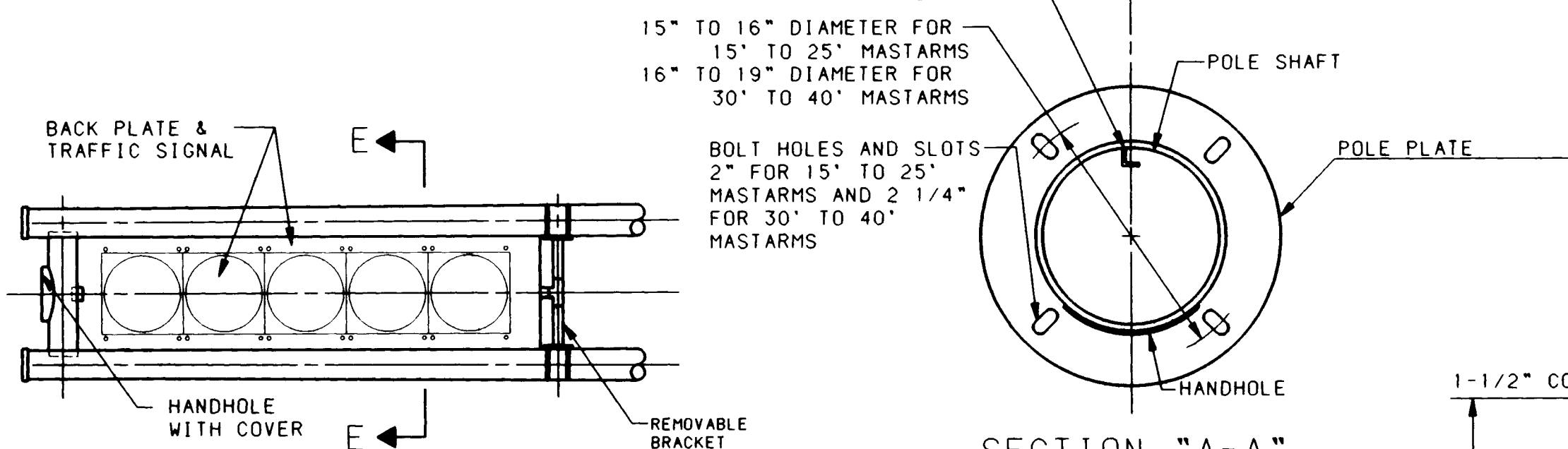
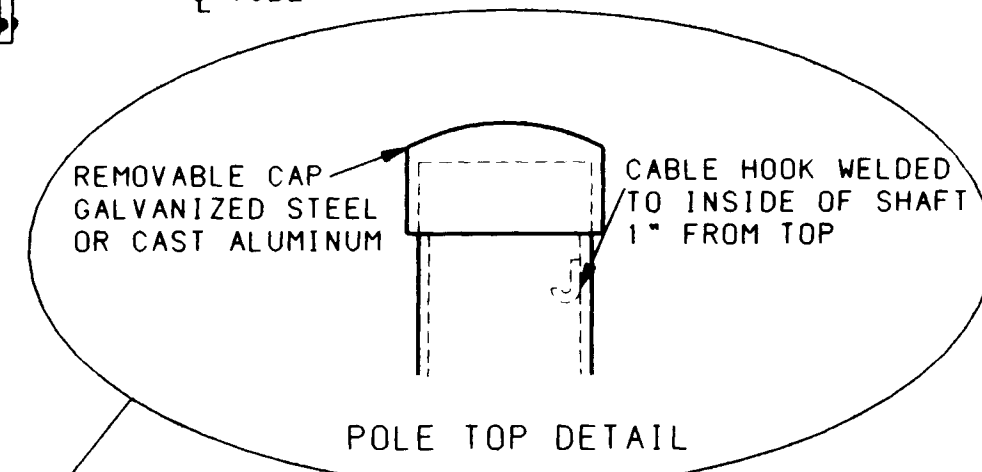
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: TYPE I POLES & PEDESTRIAN SIGNAL DETAILS 2nd STREET/CANDELARIA					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	<i>R. W. Kane</i>	9-6-90	Liquid Waste	<i>R. W. Kane</i>	9-6-90
			Traffic	<i>R. W. Kane</i>	9-6-90
			Water	<i>R. W. Kane</i>	9-6-90
PROJECT NO.	M-4035(3)	MAP NO.	G-14	SHEET	6-5 OF
C.O.A. 3203					



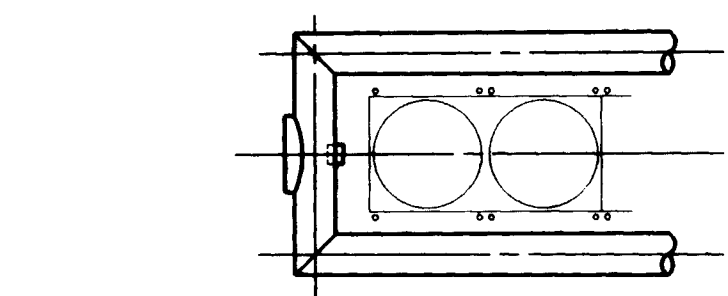
MAST ARM TYPICAL
SEE TABLE FOR DIMENSIONS



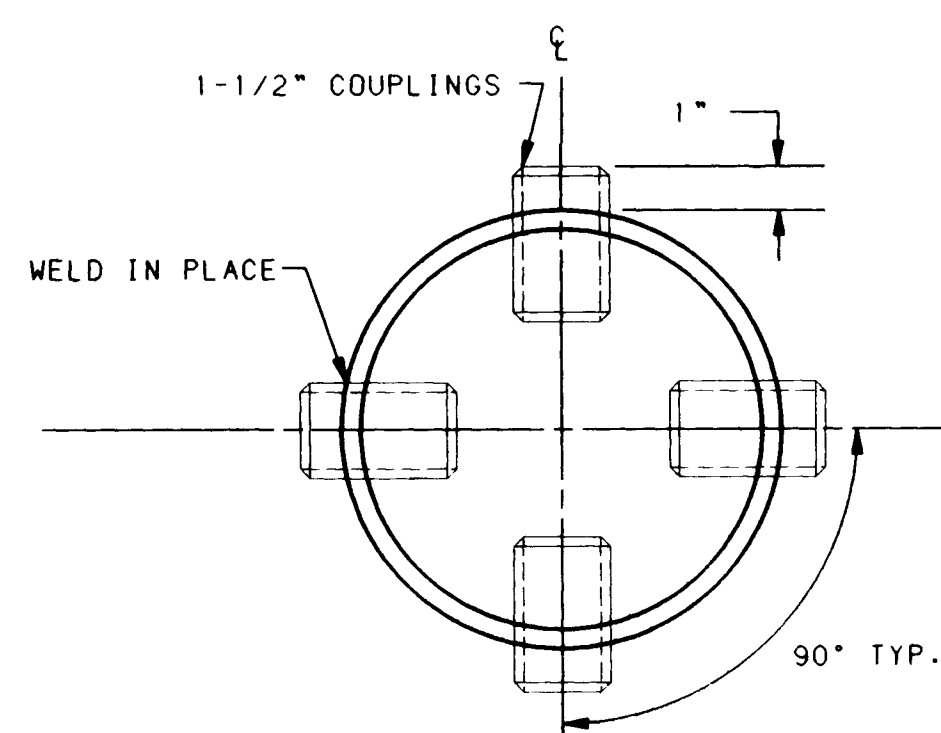
3-SECTION TRAFFIC SIGNAL



5-SECTION TRAFFIC SIGNAL

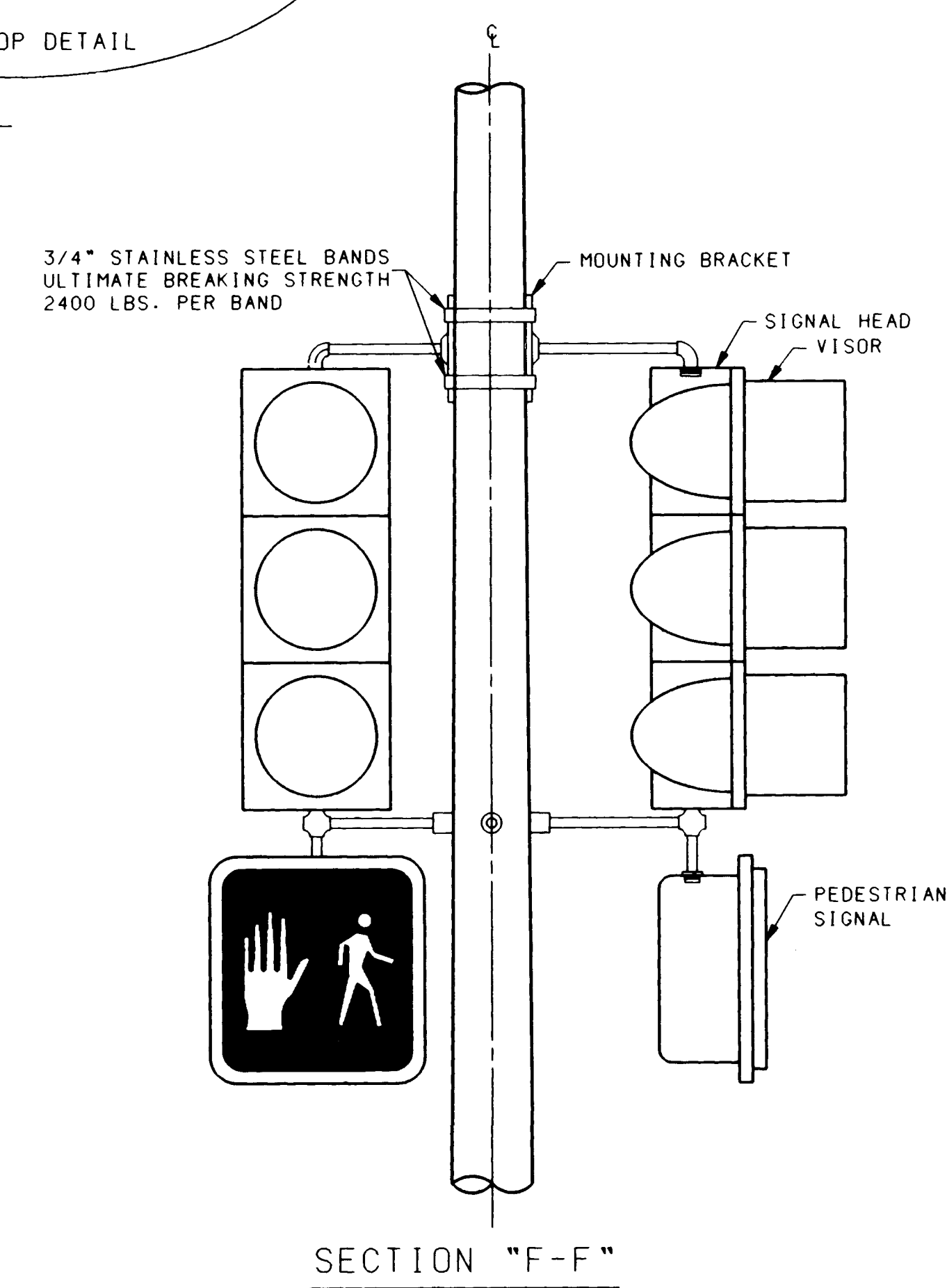


MITERED ARM END (OPTIONAL)

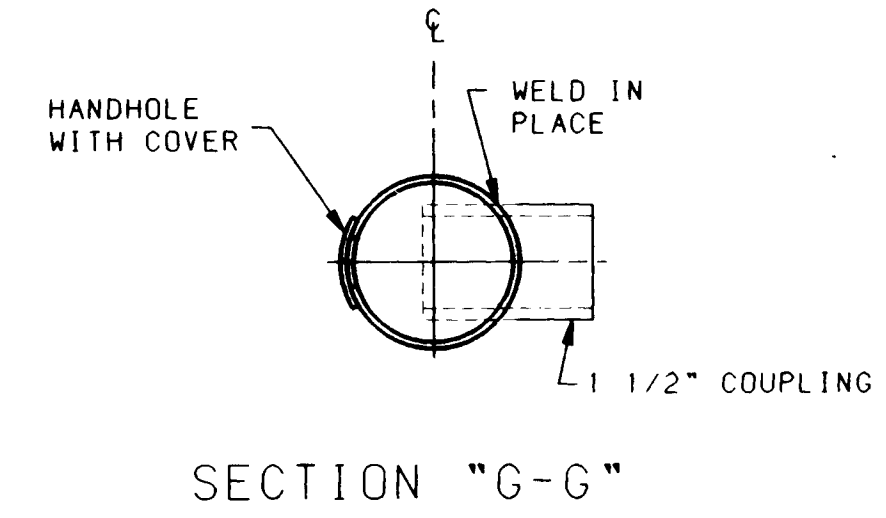


SECTION "B-B"

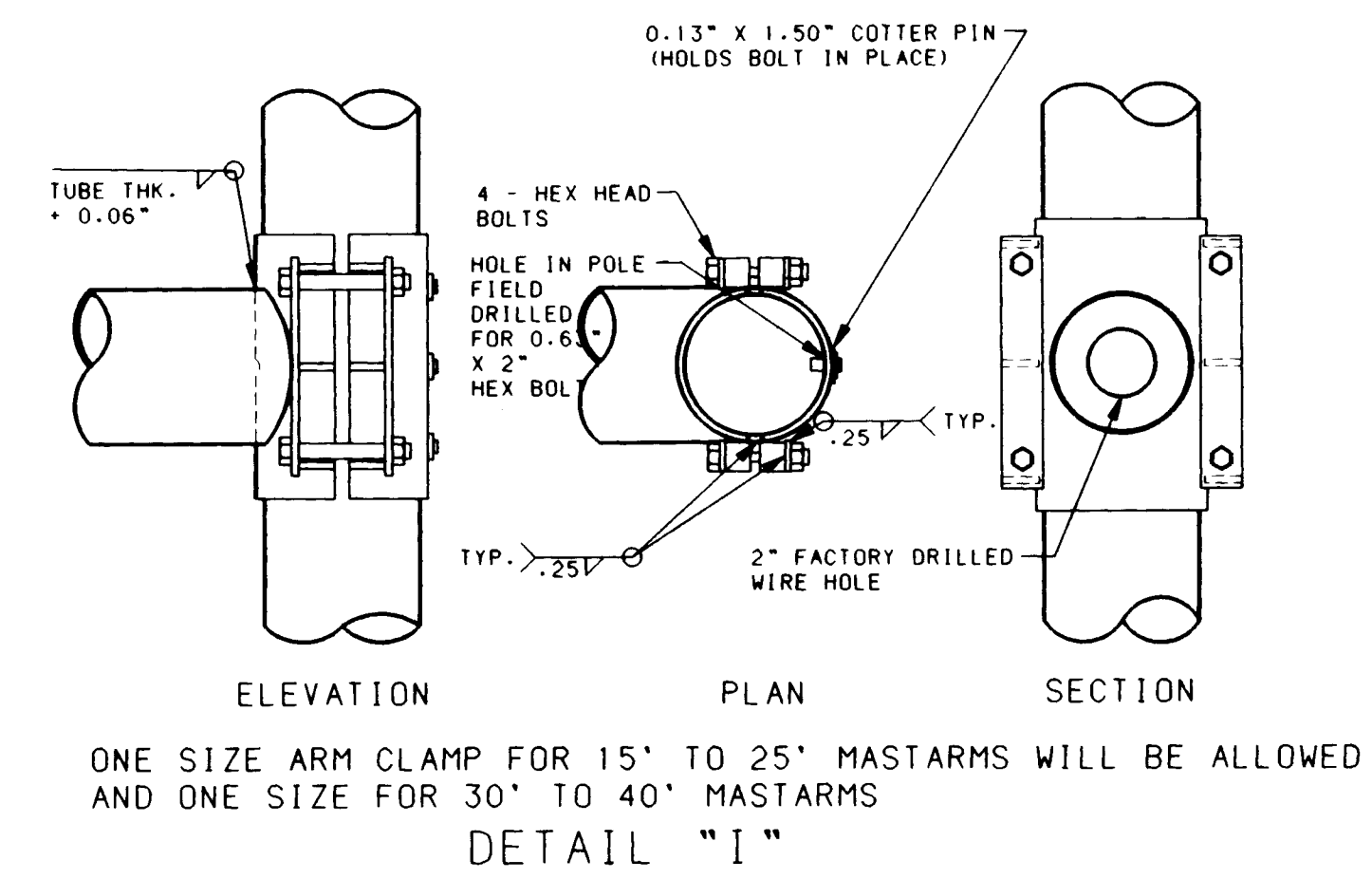
ANCHOR BOLTS
15', 20', 25' ARM: 1 1/2" X 60" X 6"
30', 35', 40' ARM: 1 3/4" X 60" X 6"



SECTION "F-F"



SECTION "G-G"



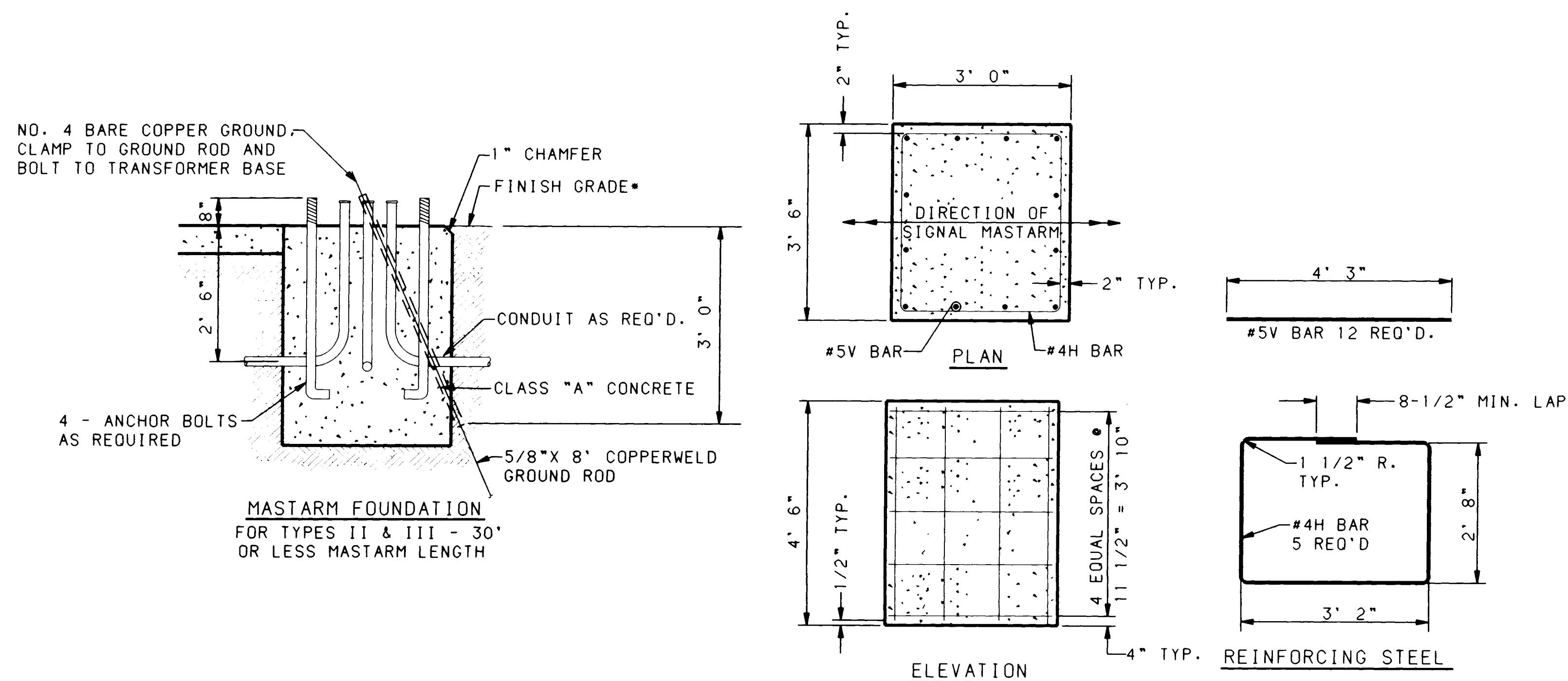
NOTES

- DESIGN IN ACCORDANCE WITH 1985 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS FOR AN 80 MPH WIND ZONE.
- POLES AND ARM SHAFTS SHALL CONFORM TO ASTM A-570 (45,000 PSI MAX + 1.25 SAFETY FACTOR YIELD).
- ALL POLES AND MASTARMS SHALL BE GALVANIZED TO ASTM A-123.
- BASE PLATE, POLES, AND ARM CONNECTING PLATES AND GUSSETS SHALL BE ASTM A-36.
- ANCHOR BOLTS SHALL BE ASTM A-36 MDD 55.
- ALL STRUCTURAL CONNECTING BOLTS SHALL BE ASTM A-325, GALVANIZED TO ASTM A-153 UNLESS OTHERWISE NOTED.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY SPECIFICATION AWS D1.1, LATEST EDITION. ALL WELDS SHALL BE FREE FROM CRACKS, EXCESSIVE UNDERCUT, AND POROSITY. ANY WELDING DEFECTS SHALL BE REPAIRED BY REMOVING THE DEFECTIVE MATERIAL AND REPLACING IT WITH SOUND WELD MATERIAL.
- ALL HOLES SHALL BE DRILLED AND DEBURRED.

26 3203. 905472

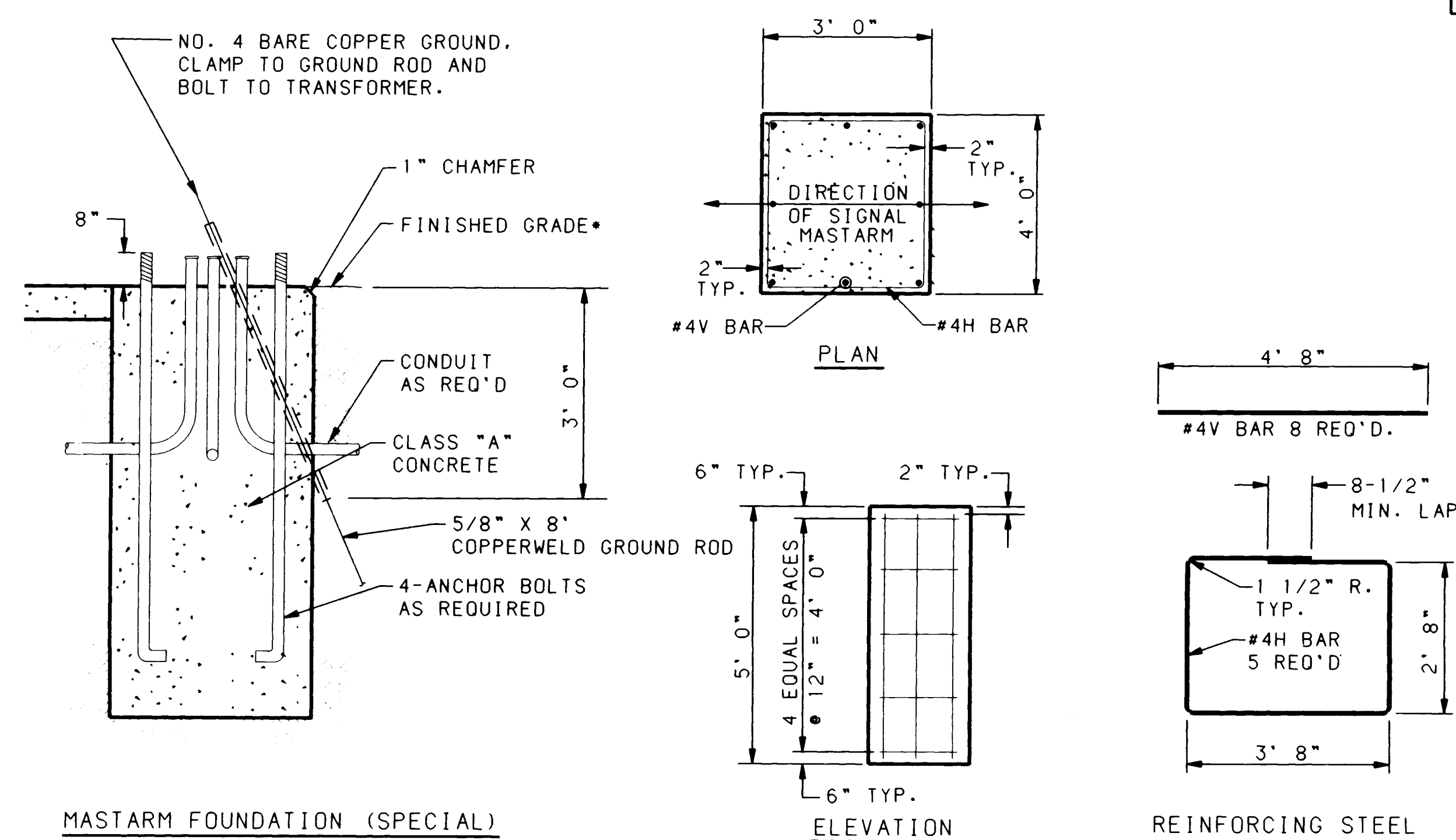
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: TYPE II STANDARDS 2nd STREET/CANDELARIA			
APPROVALS	ENGINEER	DATE	ENGINEER
DRC Chairman	R. W. Kane	9-6-90	Liquid Waste
			Traffic
			Water
PROJECT NO.	M-4035(3) C.O.A. 3203	MAP NO. G-14	SHEET 6-6

RECORD DRAWING



MASTARM FOUNDATION DETAILS-TYPE II & TYPE III STANDARDS

TYPES II & III - 30' OR LESS MASTARM LENGTH



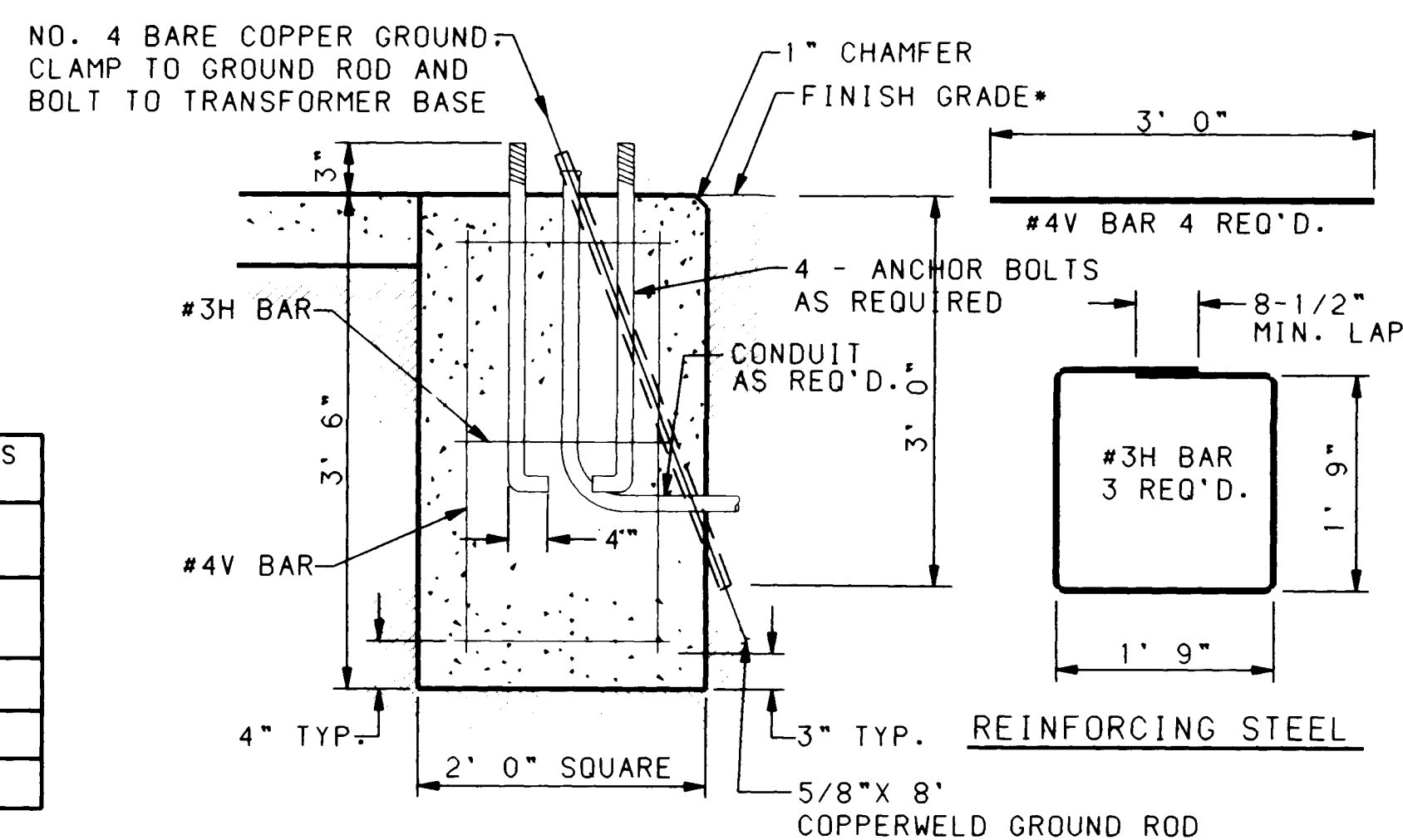
MASTARM FOUNDATION (SPECIAL) DETAILS-TYPE II & TYPE III STANDARDS
TYPES II & III - GREATER THAN 30' MASTARM LENGTH

ESTIMATED QUANTITIES (FOR CONTRACTORS INFORMATION ONLY)		
FOUNDATION	CLASS "A" CONC. CUBIC YARDS	REINFORCING BARS POUNDS
MASTARM - TYPES II & III (SPECIAL) (FOR 35 FOOT MASTARM)	2.22	72
MASTARM - TYPES II & III (FOR 30 FOOT OR LESS MASTARM)	1.75	94
PEDESTAL POLE TYPE I	0.52	17
CONTROLLER CABINET TYPE P&R	1.26	--
CONTROLLER CABINET TYPE G&M	0.78	--

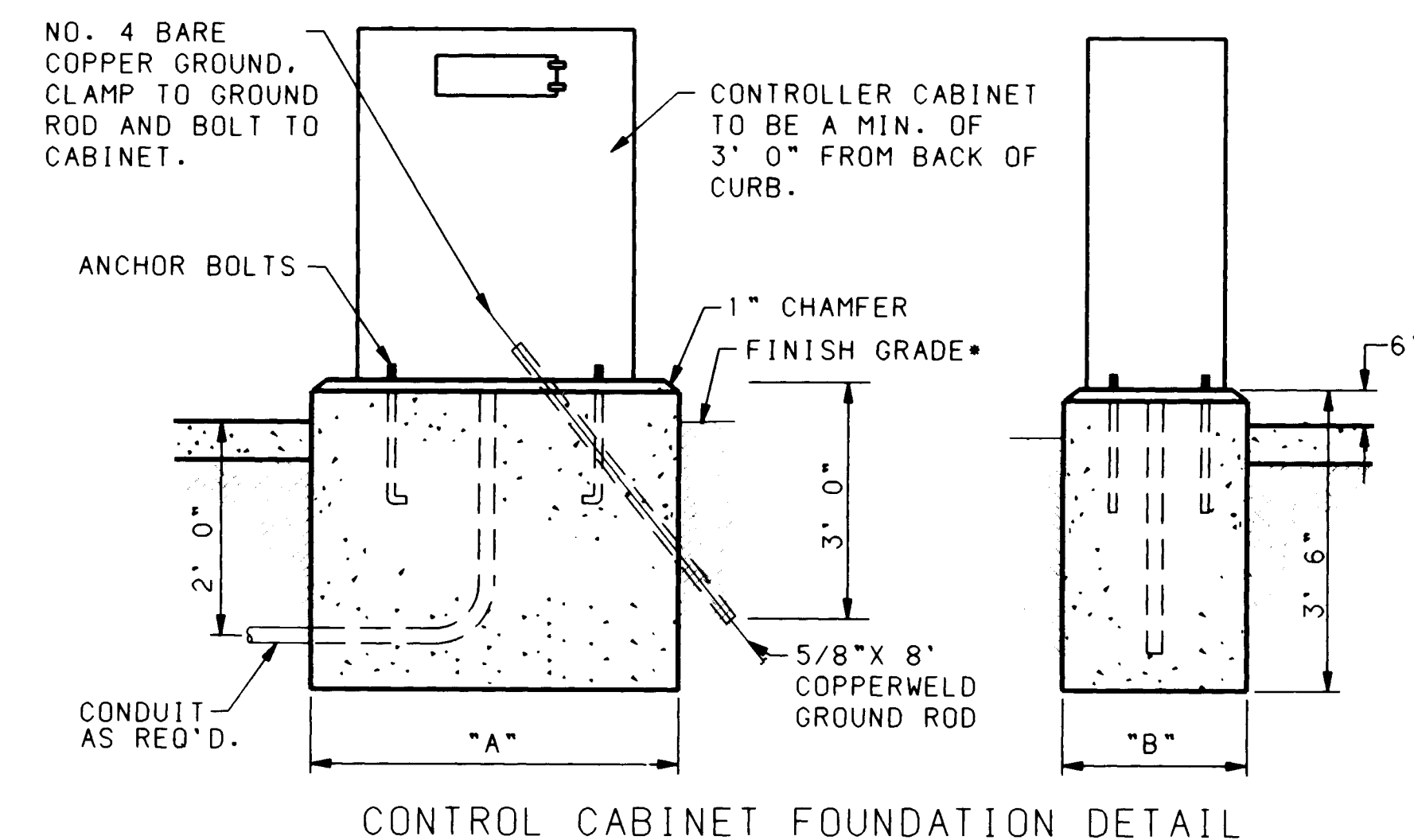
ALTERNATE DESIGNS FOR STANDARD FOUNDATIONS, TO BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.

NOTE: ALL SIGNAL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF FOUNDATION.

- PRICE OR NAME THEREOF.
- FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. THE TOP OF STANDARD FOUNDATIONS SHALL BE FLUSH WITH ADJACENT SIDEWALK OR PAVED AREAS.



PEDESTAL FOUNDATION DETAILS-TYPE I STANDARD



CONTROL CABINET FOUNDATION DETAIL

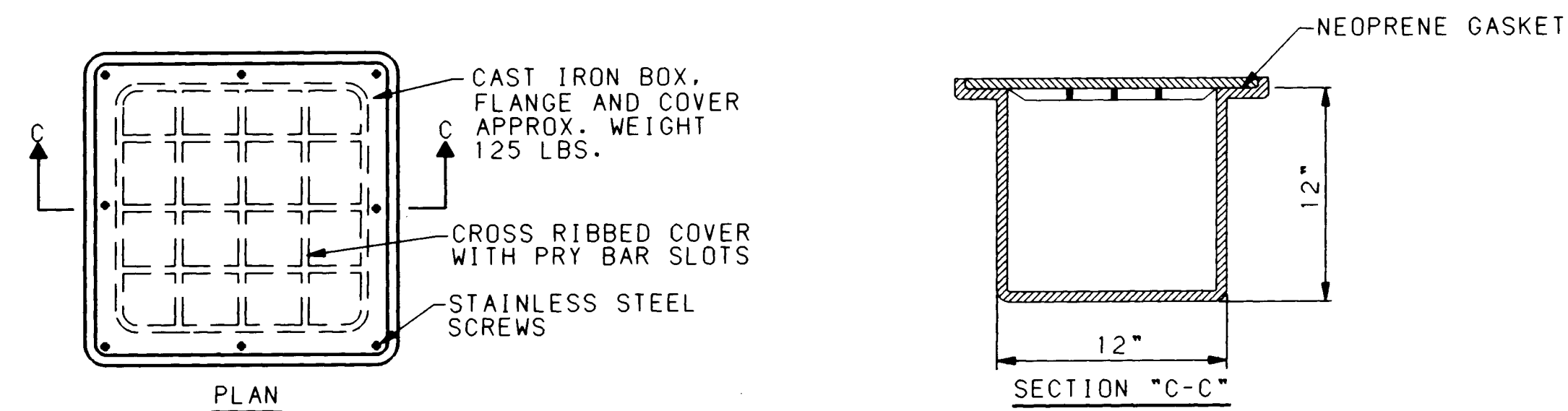
IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION. THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.

CABINET TYPE	"A"	"B"
P & R	4'-2"	2'-4"
G & M	3'-0"	2'-0"

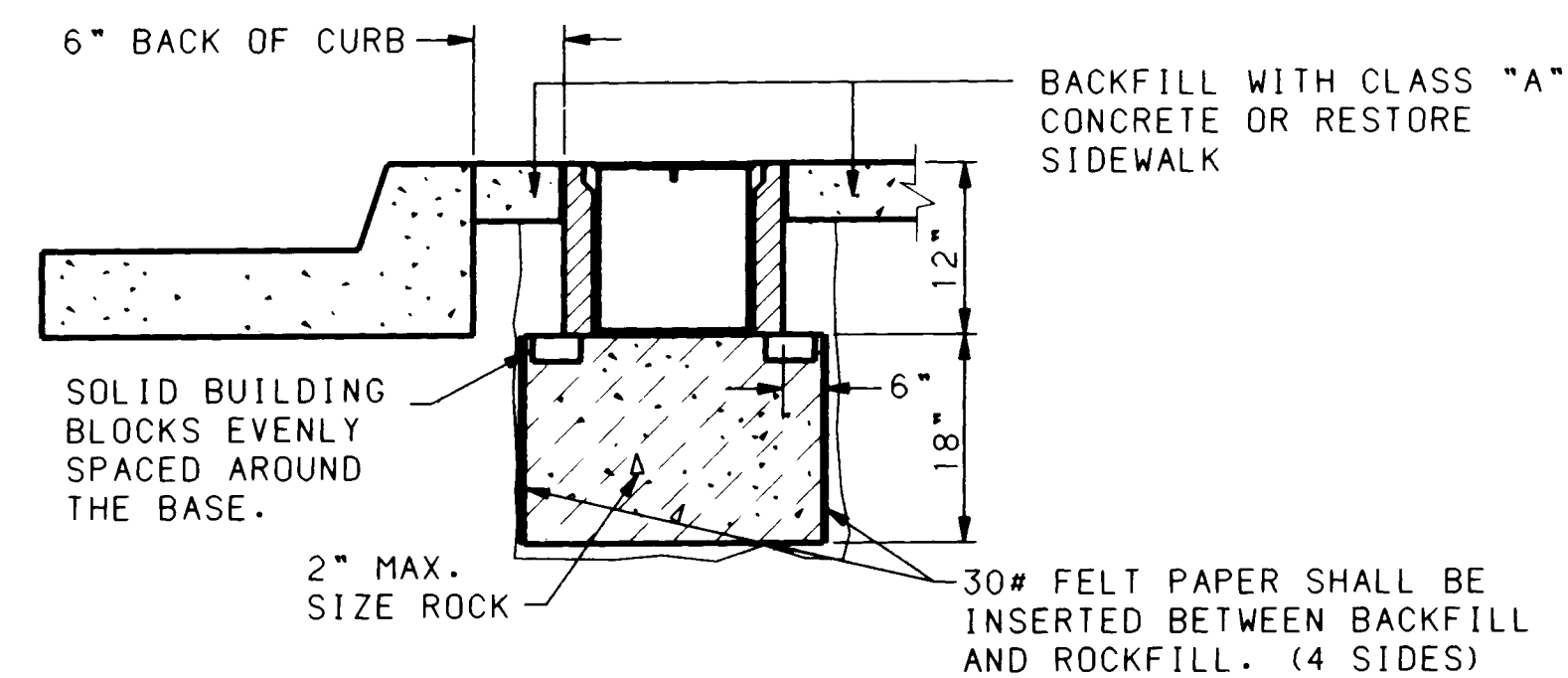
NOTES

1. ALL COPPERWELD GROUND RODS SHALL BE 5/8" ϕ X 8'-0" AND SHALL BE WRAPPED IN THREE (3) LAYERS OF PIPE INSULATION TAPE OR PLACED THROUGH A 1" ϕ PVC CONDUIT.

[illegible]

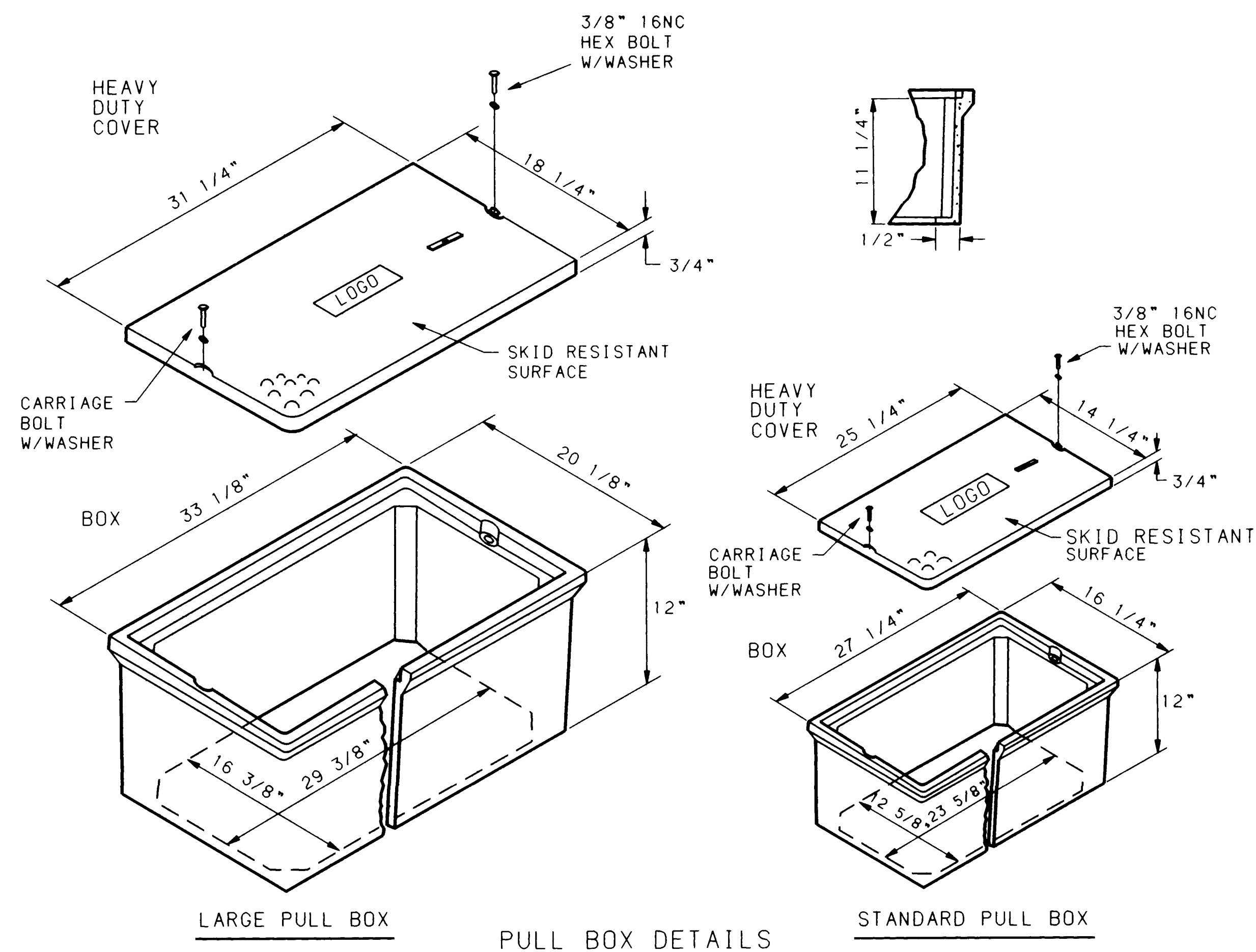


METAL PULL BOX



TYPICAL PULLBOX INSTALLATION

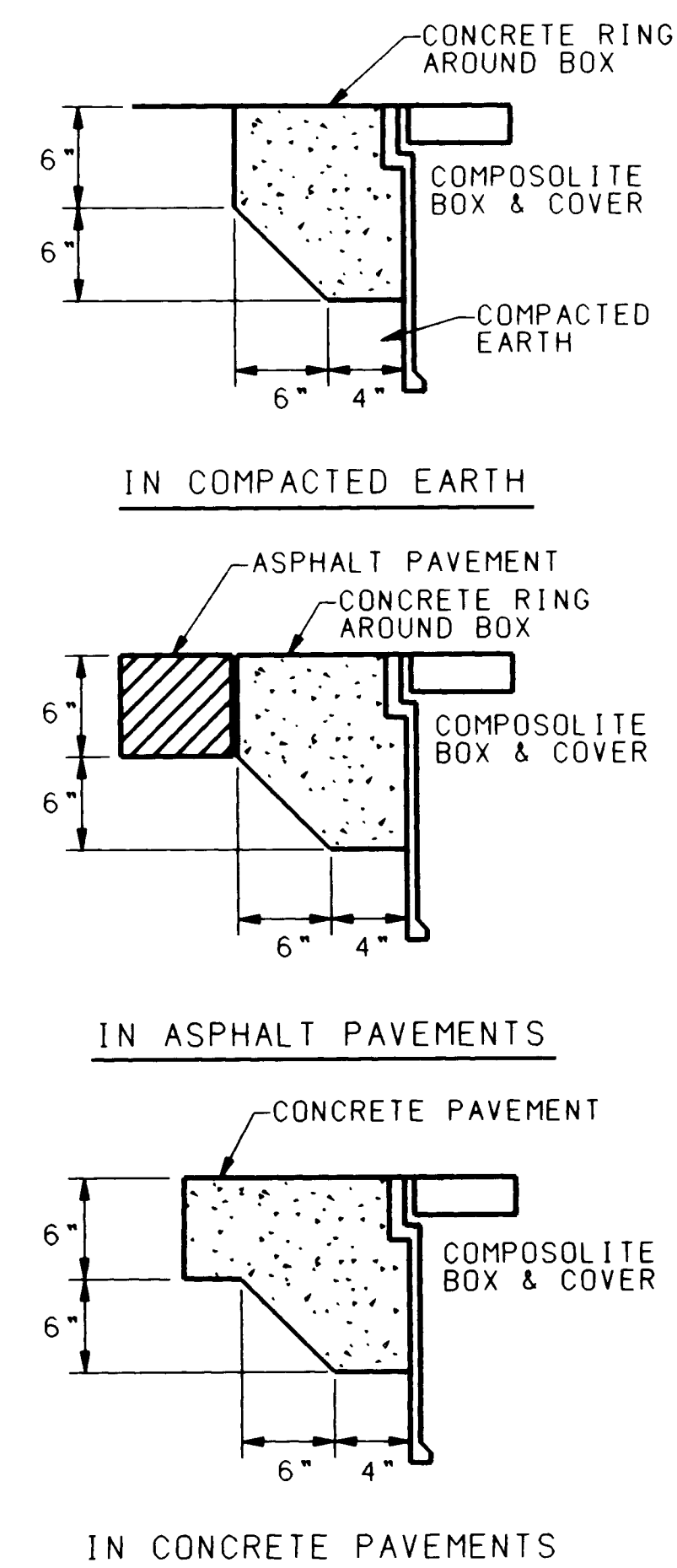
SEE DETAIL "A" BELOW



PULL BOX DETAILS

- NOTES FOR REINFORCED POLYMER MORTAR PULL BOX

1. SERVICE LOAD FOR (HEAVY DUTY COVERS) - 15,000 LBS. OVER A 10" SQUARE (150 PSI).
2. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1700 PSI, FLEXURAL STRENGTH - 7500 PSI.
3. ALL PULL BOX COVERS SHALL BE STEEL OR REINFORCED POLYMER MORTAR, NO CONCRETE COVERS WILL BE ACCEPTABLE. PULL BOX TYPE SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE MINIMUM DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.



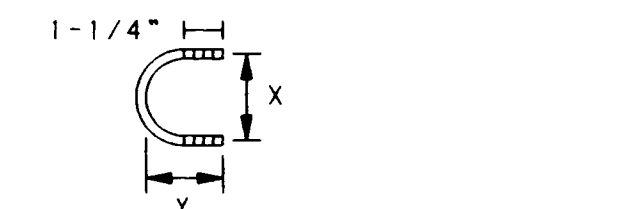
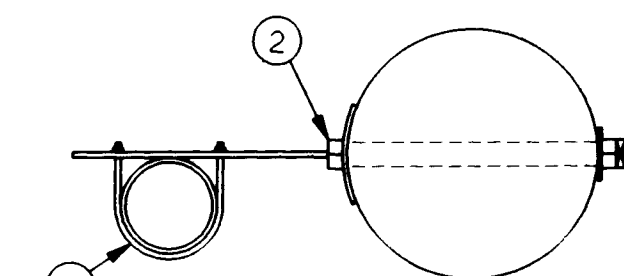
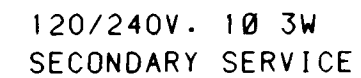
CONCRETE COLLAR DETAIL
FOR PULL BOXES

NOTE: THE CONCRETE FOR THE PULL BOXES
WILL BE PAID FOR UNDER ITEM NO.
710010 AND NO OTHER MEASUREMENT
OR PAYMENT WILL BE MADE THEREFOR

DETAIL "A"

[illegible]

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: SIGNAL & LIGHTING PULL BOX DETAILS 2nd STREET/CANDELARIA					
APPROVALS		ENGINEER		DATE	
DRC Chairman		<i>R. W. Kane</i>		9-6-80	
		Liquid Waste		<i>R. W. Kane</i> 9-6-80	
		Traffic		<i>R. W. Kane</i> 9-6-80	
		Water		<i>R. W. Kane</i> 9-6-80	
PROJECT NO.		M-4035(3) C.O.A. 3203		MAP NO. G-14	
				SHEET OF 6-8	



①	1	_____ U BOLT
②	2	5/8" x MACHINE BOLTS
③	3'	#4 SOL CU WIRE
④	2	2-1/4" SQUARE WASHER
⑤	2	5/8" MF LOCKNUT
⑥	1	LINE TAP
⑦	1	SUPPORT BRACKET
⑧	1	GROUNDING LUG

1. BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
2. BRACKET SUITABLE FOR TWO 2", OR ONE 4" CONDUIT.
3. TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.

UNIVERSAL SUPPORT BRACKETS

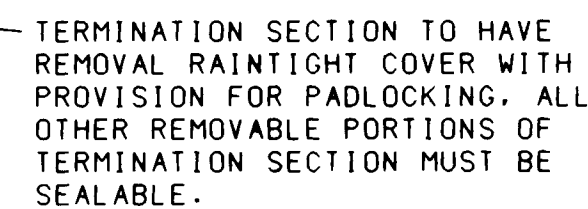
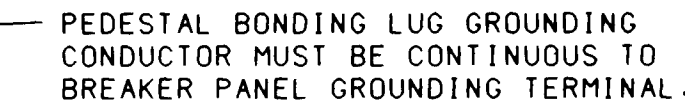
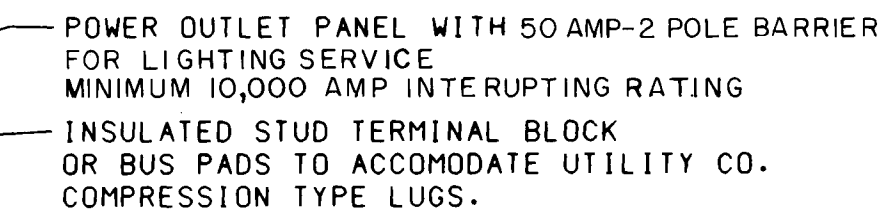
1	1	WOOD POLE FULLY TREATED - 30'-5"
2	1	EYE BOLT 5/8" Ø
3		3 WIRE - 120/240 VOLT 1Ø SECONDARY
4	60'	NO.6 WIRE THW IDENTIFY PHASES
5	1	1" SERVICE ENTRANCE WEATHERHEAD
6		CONDUIT CLAMPS
7	15'	1" GALVANIZED RIGID STEEL CONDUIT
8	1	METER SOCKET 1Ø
9		NIPPLES
10	1	TREATED PLYWOOD BACKBOARD 3/4" X 36" X 36"
11	4	1/4" GALVANIZED BOLT, NUT AND WASHER
12	2	5/8" BOLT THROUGH POLE, BOARD AND STRAP
13	2	1" X 1/8" GALVANIZED STEEL STRAP
14	1	AMP 2P. RAINIGHT MULTI-BREAKER
15	6'	1/2" GALVANIZED RIGID STEEL CONDUIT
16	10'	NO. 6 AWG BARE SOLID WIRE
17	1	3/4" Ø X 10'-0" COPPERWELD GROUND ROD AND CLAMP
18	15'	3/4" GALVANIZED RIGID STEEL CONDUIT - 3 NO. 12 THW
19	1	AMP 2P. LIGHTING CONTACTOR R.T. 240 VOLT
20		PHOTO-ELECTRIC CONTROLLER, FACING NORTH 16' ABOVE GRADE - 240 VOLT 1Ø
21	1	WEATHERPROOF JUNCTION BOX

PROVIDE ONE 50A. 1P 120V. CIRCUIT FOR CONTROLLER SIGNALS AND ONE 50A. 1P CIRCUIT FOR DUPLEX CONVENIENCE OUTLET IN CONTROLLER. (USE A 15A FUSE TO PROTECT THIS CIRCUIT.)

1 25' TREATED POLE
1 1" x 1" G.R.C. NIPPLE
1 SINGLE PHASE METER SOCKET
2 CIRCUIT BREAKERS 50A
1P IN RAINTIGHT ENCLOSURE (N.E.M.A.3R)
30' 1/C NO. 6 THW BLACK
30' 1/C NO. 6 THW WHITE
30' 1/C NO. 6 THW RED
1 COPPERWELD 5/4" x 10"-0" GROUND ROD
1 GROUND ROD CLAMP
20' 1/2" B.V. RIGID CONDUIT (APPROX.)
1 5/8" EYEBOLT
1 WEATHERHEAD
10' NO. 6 BARE COPPER GROUND WIRE
5' 1/2" GALV. RIGID CONDUIT

(NOT USED IN THIS CONTRACT)

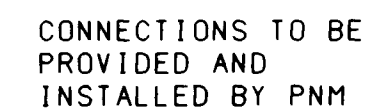
(NOT USED THIS CONTRACT)



IF PLASTIC CONDUIT IS USED IN PLACE OF RIGID, IT MUST BE ENCASED IN 2" OF CONCRETE FROM WHERE IT ENTERS METAL ENCLOSURE TO 18" BELOW GROUND LEVEL.

(FOR UNDERGROUND SERVICE)

CONDUIT INSTALLED
GROUND ROD PER
NATIONAL ELECTRIC
CODE



1. WEATHERHEAD SHALL BE 3" ABOVE NEUTRAL.
2. NO STANDOFF BRACKET REQUIRED IF CONDUIT IS 1" OR LESS. UP TO 2 CONDUITS 1" OR LESS MAY BE STRAPPED TO THE POLE.
3. CONTACT PNM CUSTOMER SERVICES FOR POLE QUADRANT.
4. ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED OR IMC.
5. ALL UNDERGROUND CONDUIT EXCEPT TYPE DB PVC. SCHEDULE 40 PVC. RIGID GALVANIZED OR IMC MUST BE CONCRETE ENCASED.
6. RISER BRACKET ASSEMBLY MUST HAVE PROVISIONS FOR GROUNDING BY PNM.

①	1	2" CLAMP TYP WEATHER HD
②	32 36"	2" GALVANIZED CONDUIT
③	2	UNIVERSAL SUPPORT BRACKET
④	2	2" PIPE STRAP KIT
⑤	1	2" GALVANIZED ELBOW
⑥	4	5/8" x MACHINE BOLT
⑦	4	5/8" LOCKNUT
⑧	4	2-1/4" SQUARE WASHER
⑨	1	2" GALVANIZED COUPLING
⑩	3	LINE TAP
⑪	2	#10-2" GROUND LUG
⑫	1	GROUND ASSEMBLY
	10	2" P.V.C. From Elbow to Meter

NO SCALE

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP
--	---

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	<i>R. W. Kane</i>	9-6-90	Liquid Waste	<i>R. W. Kane</i>	9-6-90
			Traffic	<i>R. W. Kane</i>	9-6-90
			Water	<i>R. W. Kane</i>	9-6-90

PROJECT NO.	M-4035(3) C.O.A. 3203	MAP NO.	G-14	SHEET OF	6-10
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RECORD DRAWING

GENERAL NOTES

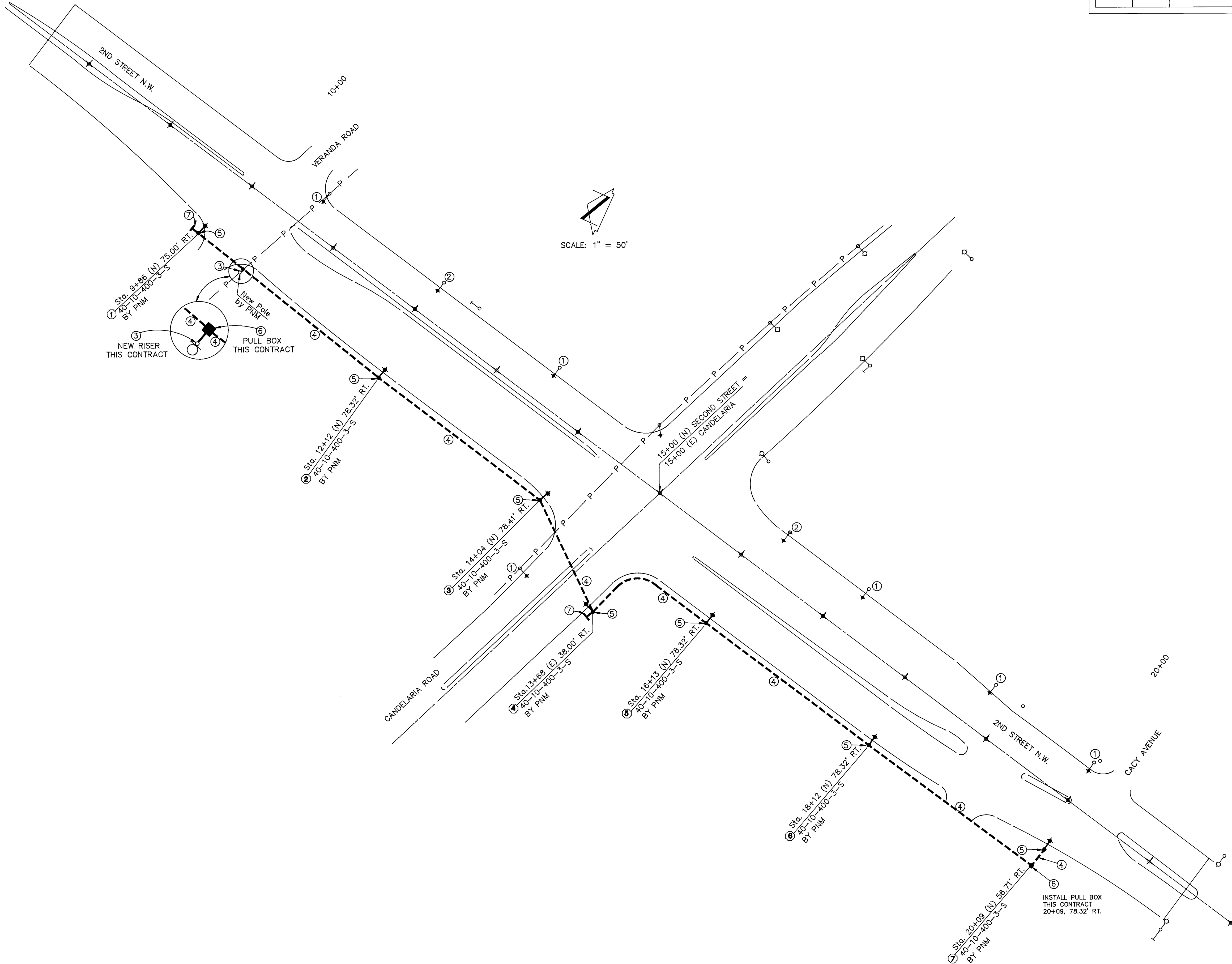
- LEAD

M - 4035 (3)
COA PROJ. No. 3203

Drawn: 8/28/91
Date: 8/28/90
By: J. W. Kane
Checked: C. V. O'Donnell

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		7-2	

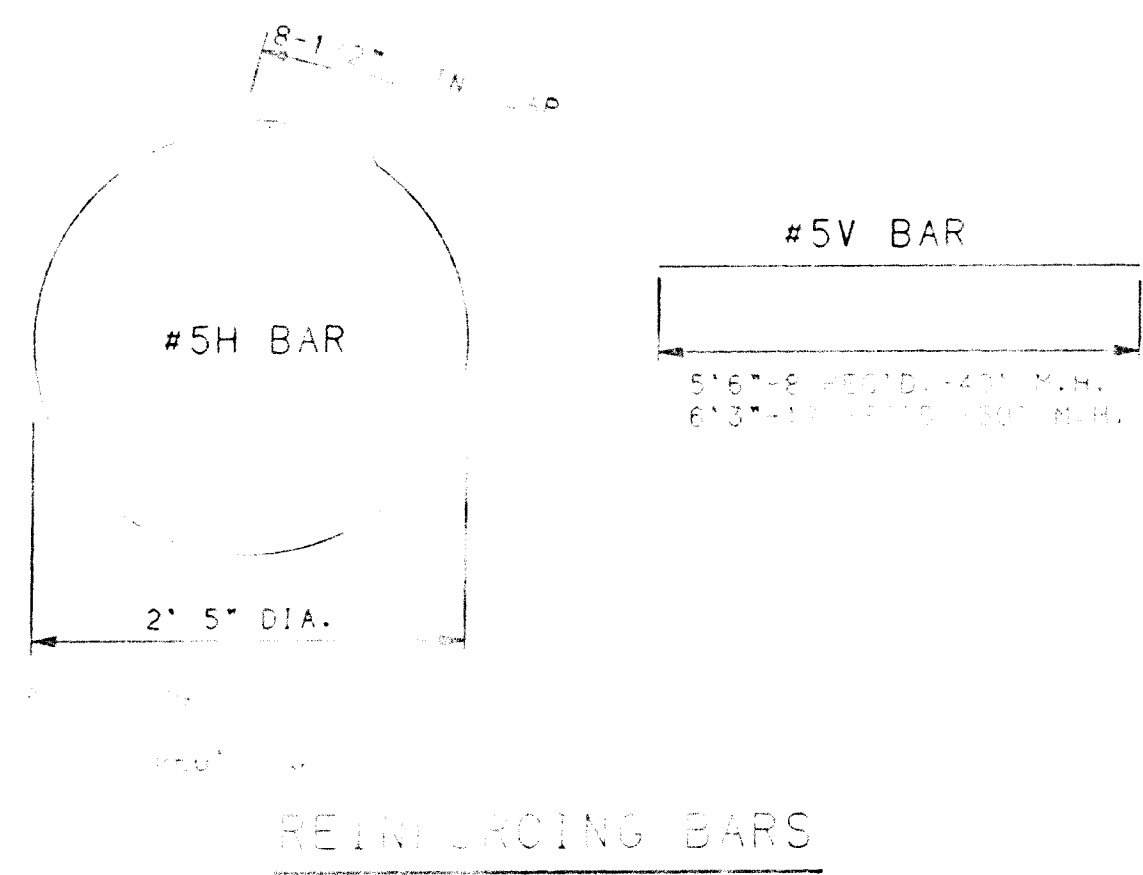
- KEY NOTES
- NEW 250 WATT HPS LUMINAIRE WITH 6' ARM BY PNM ON EXISTING POLE.
 - NEW 250 WATT HPS LUMINAIRE WITH 6' ARM BY PNM ON NEW POLE.
 - INSTALL 1 1/2" RIGID CONDUIT RISER PER PNM REQUIREMENTS. TIE INTO NEW PULL BOX. THIS CONTRACT.
 - INSTALL 2" PVC CONDUIT. MIN BURY 24" WITH PULL WIRE. THIS CONTRACT.
 - CONSTRUCT FOUNDATION FOR LIGHT STANDARD ONLY. PNM TO INSTALL LIGHT STANDARD AND LUMINAIRE.
 - INSTALL STANDARD ELECTRICAL PULLBOX.
 - STUBOUT CONDUIT TO 5 FEET FROM POLE BASE AND CAP.



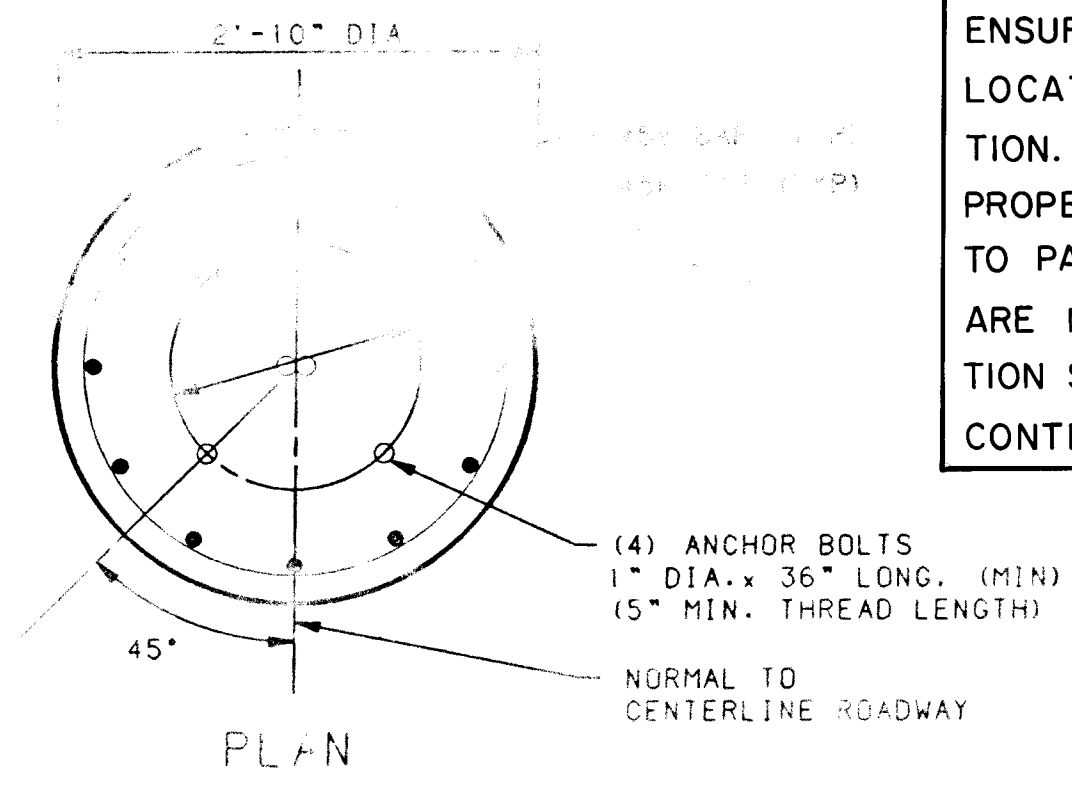
26 3203.906092

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ROADWAY LIGHTING LAYOUT PLAN 2ND AND CANDELARIA					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-90	WATER	R.W. Kane	9-6-90
TRANSPORTATION	<i>[Signature]</i>	9-6-90	WASTE WATER	R.W. Kane	9-6-90
HYDROLOGY	NA				
PROJECT M-4035(3)		MAP NO. G-14		SHEET 7-2 OF 7-2	
NO. COA PROJ NO. 3203				12/10/92	

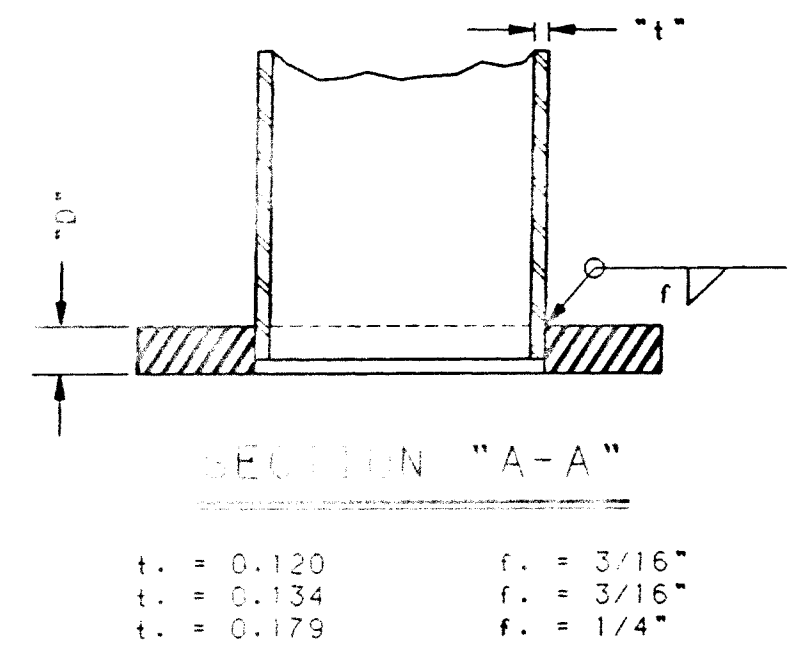
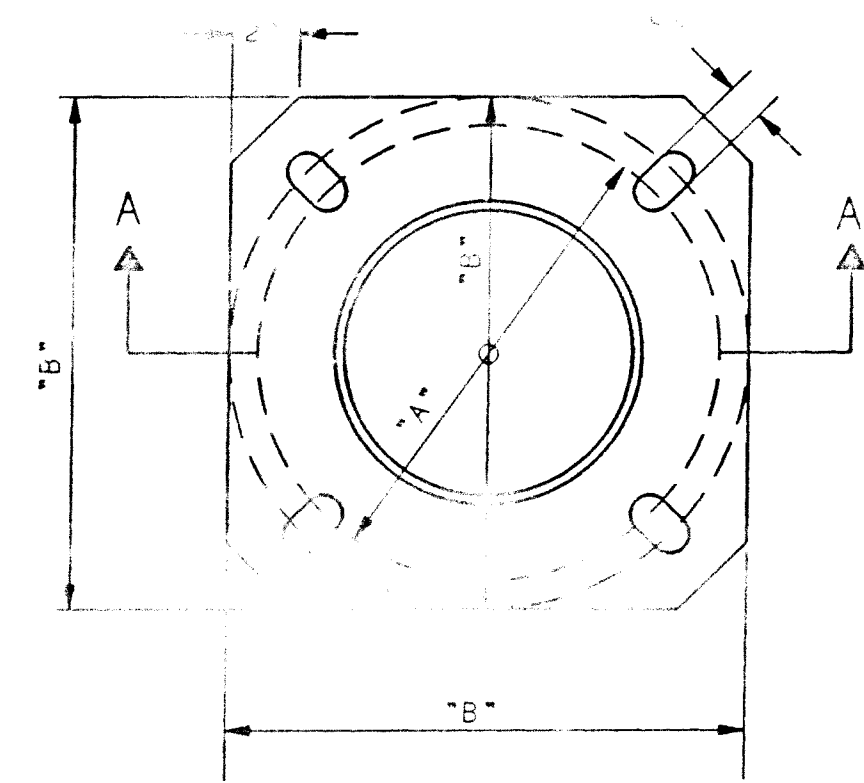
RECORD DRAWING



REINFORCING BARS



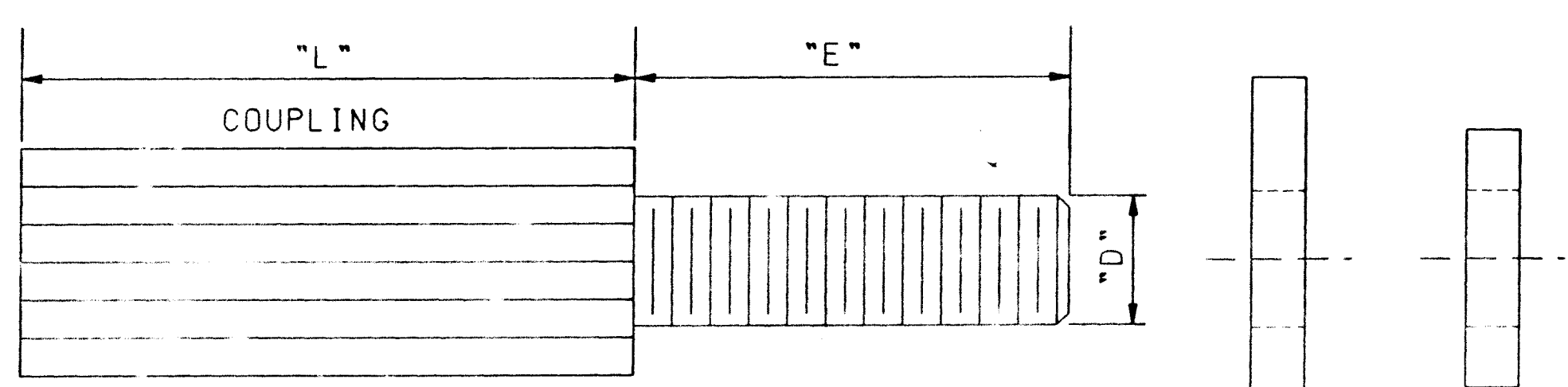
SPECIAL CARE TO BE TAKEN BY CONTRACTOR TO ENSURE ANCHOR BOLTS ARE SET IN PROPER LOCATION AND AT PROPER HEIGHT IN FOUNDATION. EACH FOUNDATION WILL BE CHECKED FOR PROPER INSTALLATION OF ANCHOR BOLTS PRIOR TO PAYMENT FOR THIS ITEM. IF ANCHOR BOLTS ARE NOT PROPERLY INSTALLED, ENTIRE FOUNDATION SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S OWN EXPENSE.



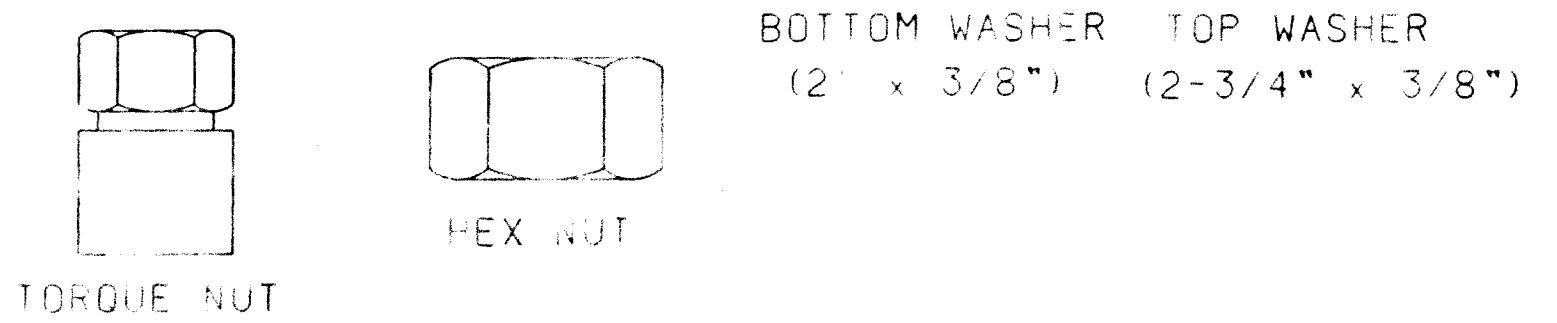
DIMENSION TABLE					
MOUNTING HEIGHT	NO. OF ARMS	A (MAX.)	B (MIN.)	C	
30' - 35'	1	11	13	1-1/8"	
40'	1	11	16	1-1/8"	
50'	1	14	16	1-1/8"	
40' - 50'	2	14	16	1-3/8"	

ANCHOR BASE SHALL BE FABRICATED FROM PLATE STEEL CONFORMING TO ASTM A-36 AND SHALL BE WELDED TO POLE SHAFT PRIOR TO GALVANIZING SHAFT.

ANCHOR BASE DETAIL



I.D. THREADED FOR ANCHOR BOLT



DIMENSION TABLE							
THREAD	NO. OF ARMS	MAX. LENGTH	MAX. WEIGHT	L	E		
1"	8 UNC	IPS	IPS	7.5 KIPS	175	4-3/4"	3-5/16"

BREAKAWAY SUPPORT COUPLING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO STANDARDS FOR BREAKAWAY SUPPORTS.

COUPLING SHALL BE FABRICATED FROM EITHER DIE CAST ALUMINUM ALLOY 380 ACCORDING TO ASTM B-85, OR EXTRUDED FROM ALLOY 2024-T8511 ACCORDING TO ASTM A-153.

WASHERS SHALL BE FABRICATED FROM ASTM A-36 STEEL PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

HEX NUTS SHALL MEET THE REQUIREMENTS OF ASTM A-563 GRADE A, AND ANSI B18.2.2 HEX TYPE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

TORQUE NUT SHALL BE FABRICATED FROM ALUMINUM ALLOY AND GROOVED TO SEPARATE AT THE SPECIFIED TORQUE.

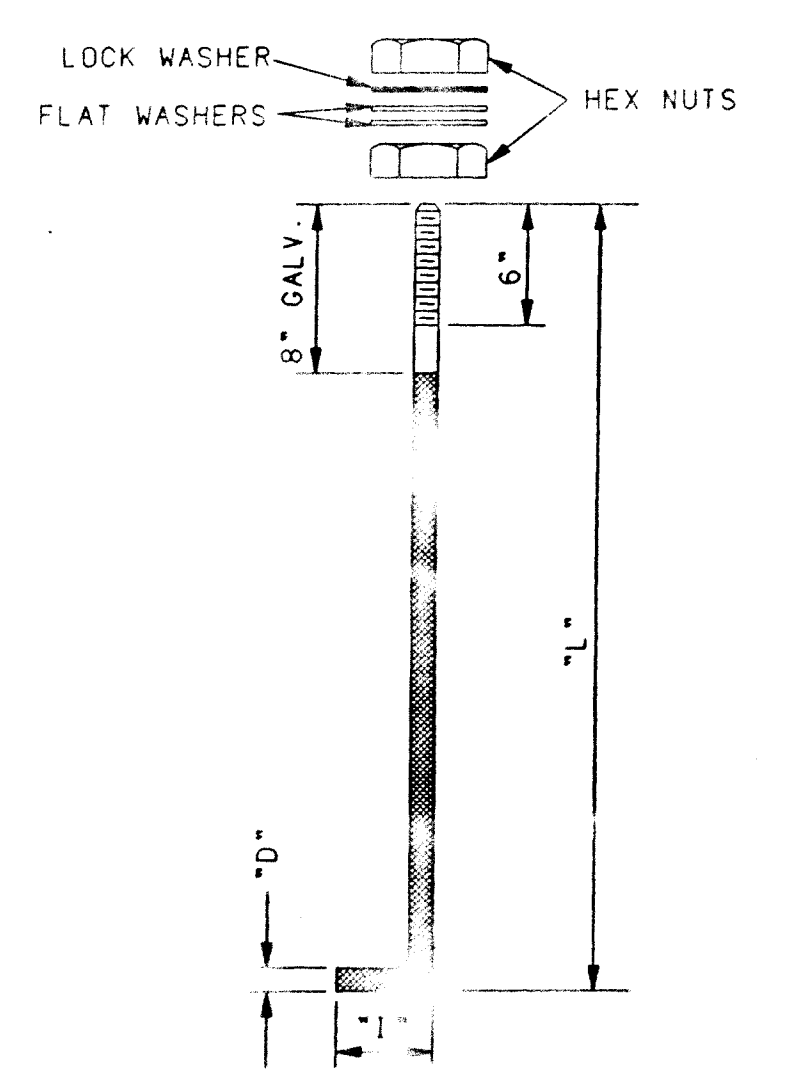
THREADED STUD SHALL MEET THE REQUIREMENT OF ASTM A-675 GRADE 90 AND IS GALVANIZED WITH ASTM A-153, OR IS FABRICATED FROM AISI STAINLESS STEEL.

WHEN COUPLINGS ARE USED, EACH POLE SHALL BE EQUIPPED WITH FOUR (4) COUPLINGS AND THERE SHALL BE EIGHT (8) FLAT WASHERS AND FOUR (4) HEX OR TORQUE NUTS.

BREAKAWAY SUPPORT COUPLING

GENERAL NOTES

- ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENTS SHALL BE MADE THEREFOR.
- WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.4.2 OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.



DIMENSION TABLE					
MOUNTING HEIGHT	NO. OF ARMS	D	L	I	UNC
30' - 50'	1	1"	36	4	8
40'	2	1"	36	4	8
50'	2	1-1/4"	42	6	7

ANCHOR BOLTS SHALL BE HOT DIPPED AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90. NUTS MEET THE REQUIREMENTS OF ASTM A-563 GRADE A, AND ANSI B18.2.

FLAT WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHERS.

LOCK WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B18.21.1 HEAVY WASHERS.

BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

FOUR (4) ANCHOR BOLTS, EIGHT (8) HEX NUTS, EIGHT (8) FLAT WASHERS, AND FOUR (4) LOCK WASHERS SHALL BE FURNISHED WITH EACH ANCHOR BASED EQUIPPED POLE.

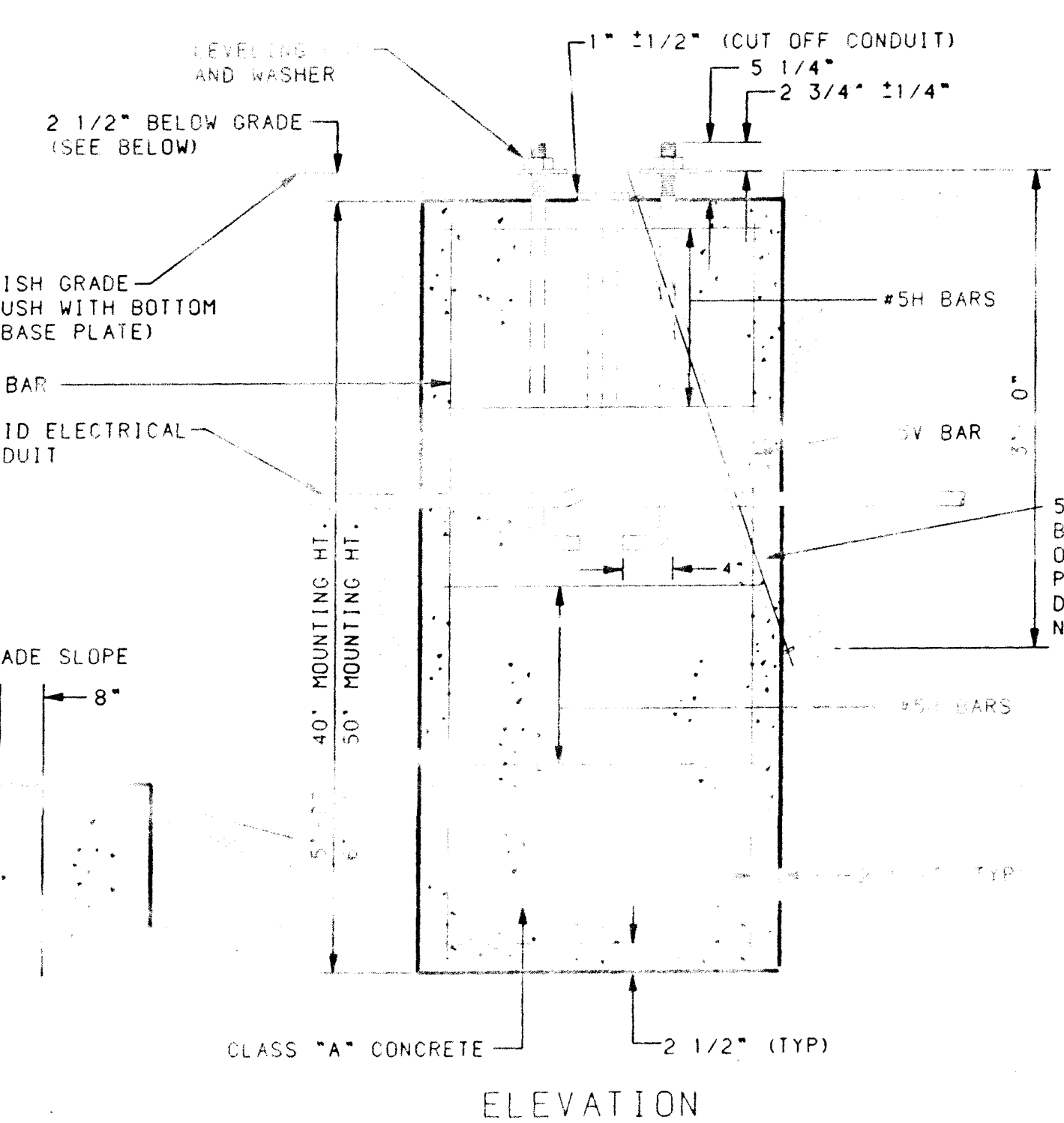
NUTS, FLAT WASHERS, AND LOCK WASHERS FURNISHED FOR BREAKAWAY SUPPORTS SHALL BE SPECIFIED ON DETAILS.

ANCHOR BOLTS

NO SCALE

- TO BE USED ONLY WHERE BREAKAWAY SUPPORT COUPLINGS ARE NOT REQUIRED.

3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
TRAFFIC DESIGN SECTION TYPE "V" STANDARD FOUNDATION & BASE DETAILS			



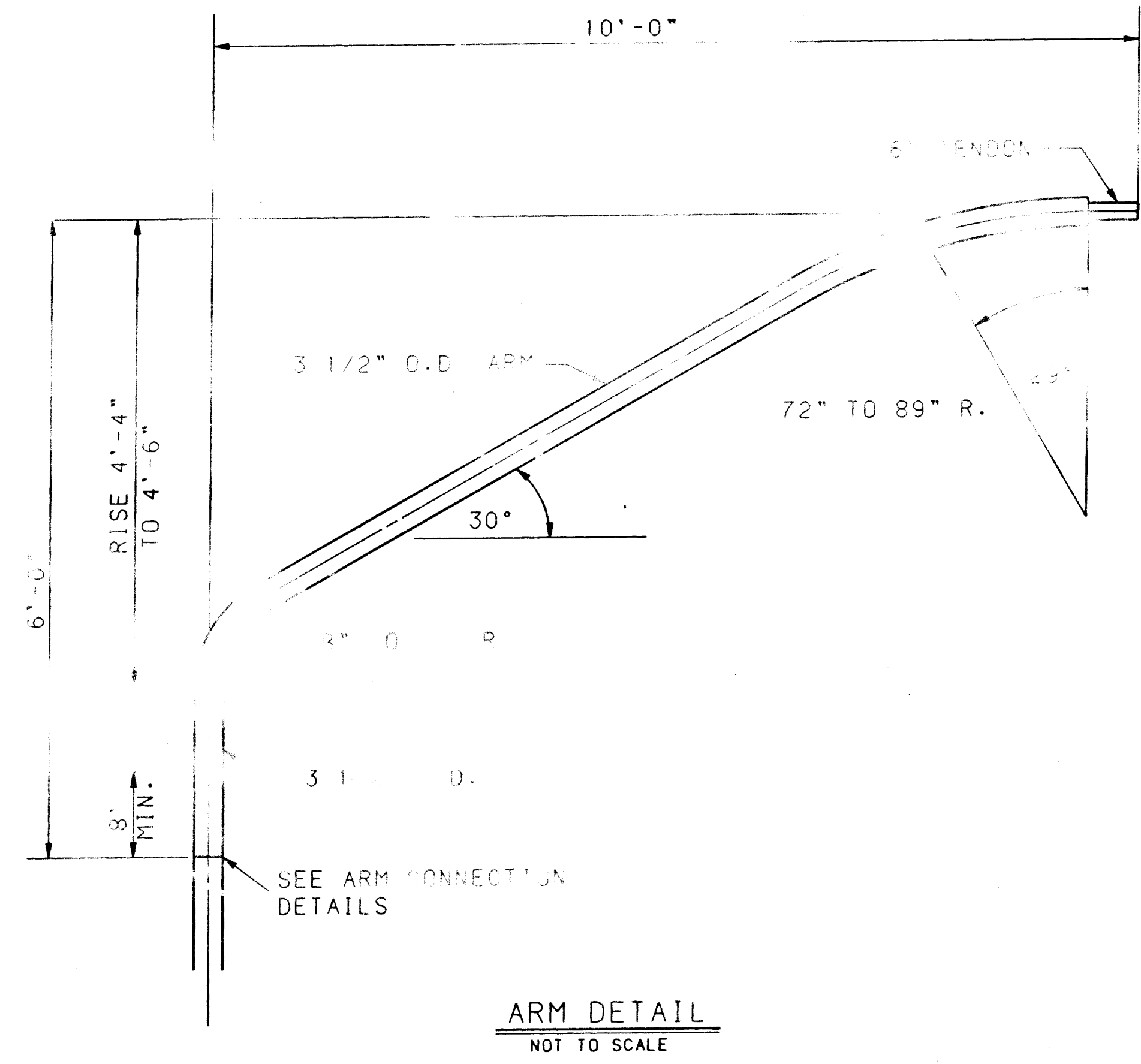
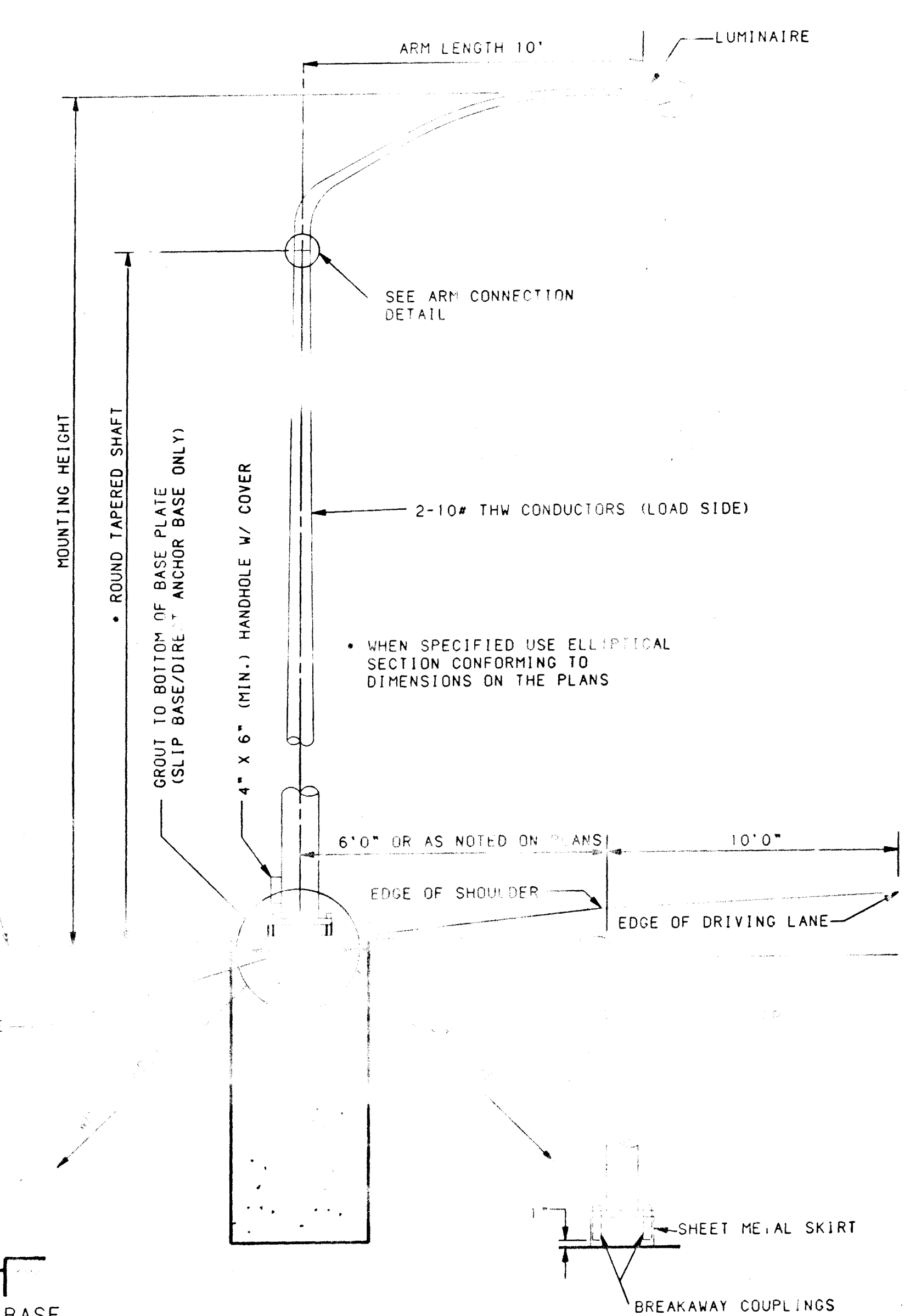
ELEVATION

FOUNDATION DETAILS		
	40' MOUNTING HT.	50' MOUNTING HT.
REINFORCING BARS	12# BARS	12# BARS
CONCRETE CLASS	12# BARS	12# BARS

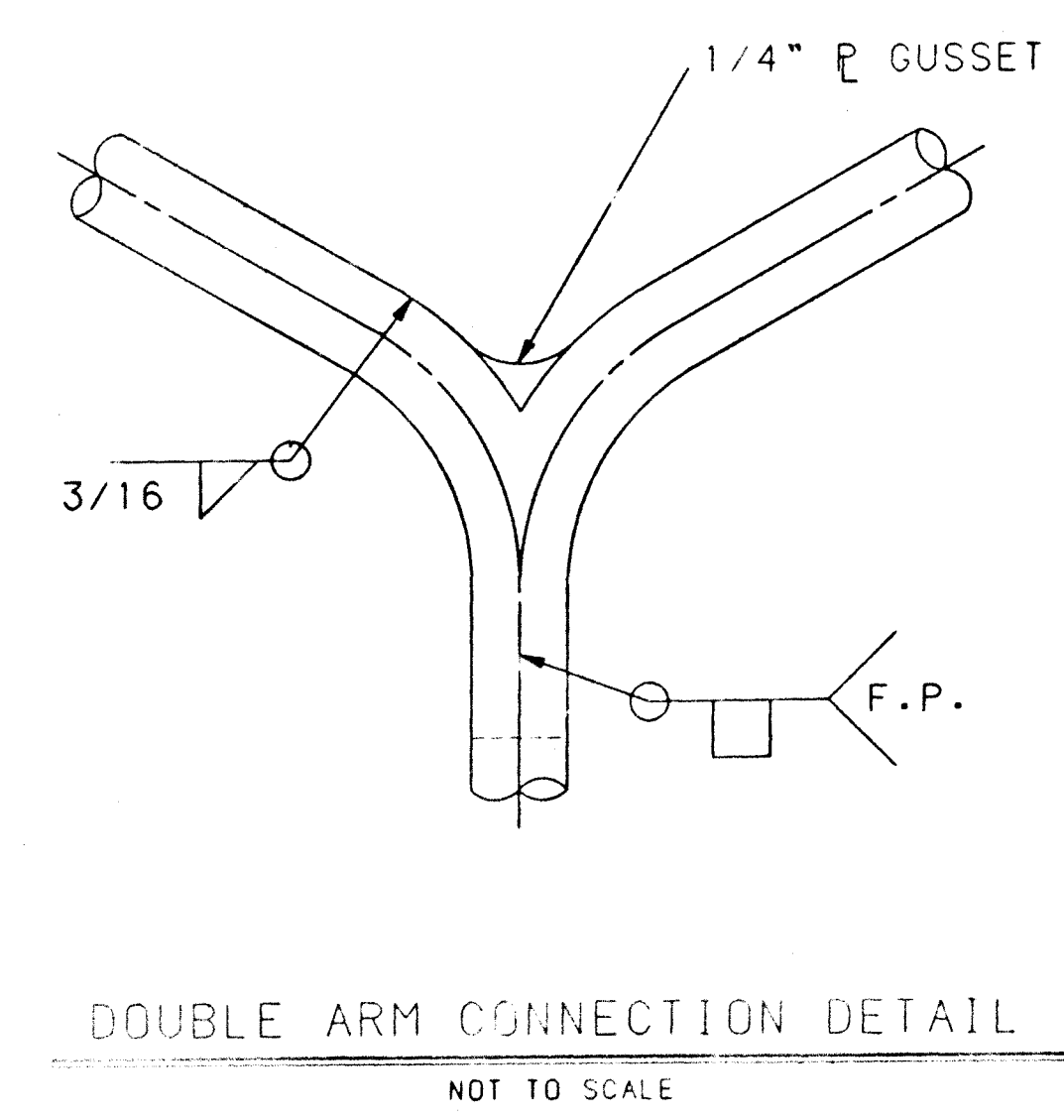
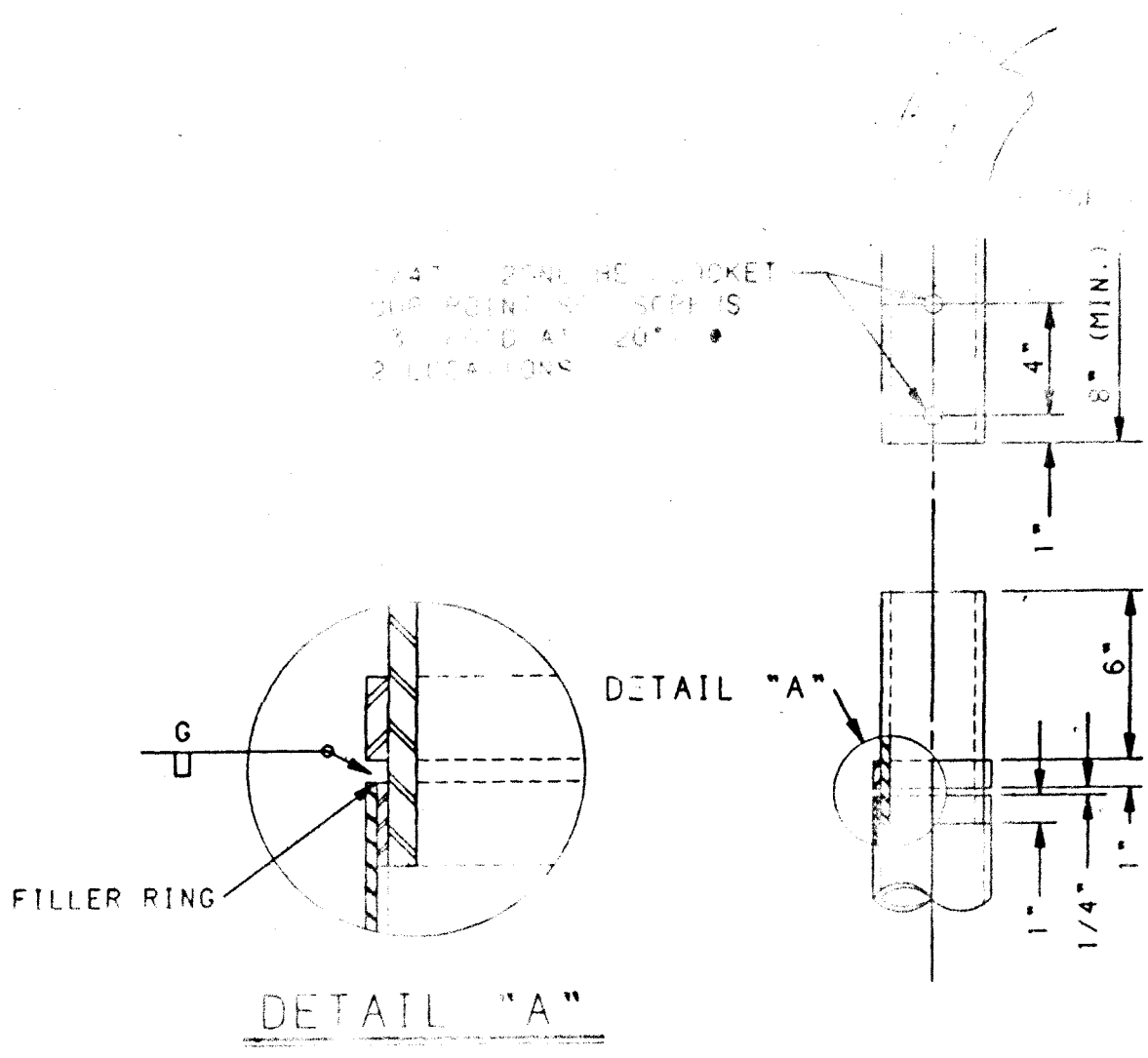
FOUNDATION DETAILS

NO SCALE

26 3203.9.06/92



- GENERAL NOTES
1. MAST ARM SHALL BE DAVIT STYLE. DIMENSIONS SHALL BE AS SHOWN. ARM SHALL BE ATTACHED ON A 6" TENDON AS SHOWN. TENDON SHALL BE A ROUND TAPERED TYPE.
 2. NUTS, BOLTS OR FASTENERS SHALL BE 1/4" DIA. 1/2" LONG AND BE EITHER ZINC PLATED OR GALVANNEAL. REFER TO ASTM A-165.
 3. BOLT NUTS SHALL BE 22 GAGE STAINLESS STEEL SHW 18-8 SERIES (301, 302, 303, 304).
 4. GROUTING SHALL BE IN ACCORDANCE TO SECTION 617 OF STANDARD SPECIFICATIONS.



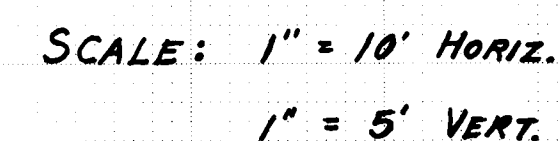
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT TRAFFIC DESIGN SECTION TYPE "V" STANDARD			

26 3203.906292

ORIGINAL	SURVEYED _____	BY _____	DATE _____
SURVEY	PLOTTED _____		
NOTE BOOK	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS

DATE	DATE	DATE	DATE	DATE	DATE
TIME	TIME	TIME	TIME	TIME	TIME
AS BUILT INFORMATION					
CONTRACTOR					
WORK					
STARTED BY					
DATE					
CHECKED BY					
DATE					
ACCEPTANCE BY					
DATE					
FIELD					
VERIFICATION BY					
DATE					
DRAWINGS					
CORRECTED BY					
DATE					
MICRO-FILM INFORMATION					
RECORDED BY					
DATE					
NO					



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

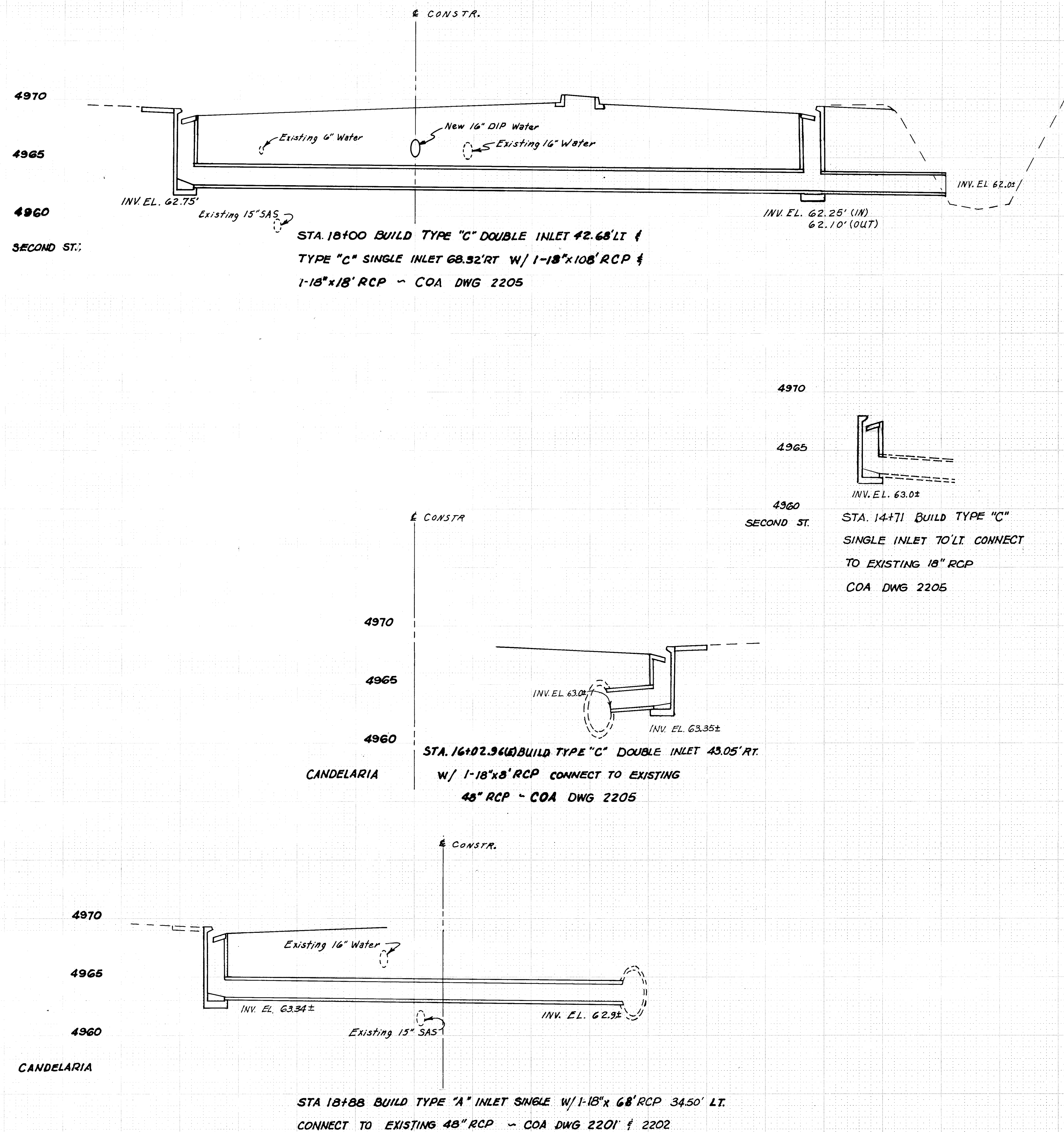
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. W. Kane</i>	7-6-90	WATER	<i>R. W. Kane</i>	7-6-90
TRANSPORTATION	<i>R. W. Kane</i>	7-6-90	WASTE WATER	<i>R. W. Kane</i>	7-6-90
HYDROLOGY	NA				

12/10/92

RECORD DRAWING

ORIGINAL	SURVED _____	BY		DATE
SURVEY	PLOTTED _____			
NOTE BOOK	TEMPLATE _____			
NO.	AREAS _____			
	AREAS CHECKED _____			

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS



SCALE: 1" = 10' HORIZ.
1" = 5' VERT.

[illegible]

RECORD DRAWING

Plan view of the proposed improvements to the intersection of Alameda Drive and Candalaria Road. The drawing shows the layout of the intersection, including the proposed new asphalt and concrete pavements, the existing multiplate archpipe structure, and the proposed new double type 'C' inlet. Key features include the existing 24-inch RCP S.D., 30-inch RCP S.D., and 48-inch RCP S.D. pipes, and the proposed new 18-inch RCP inlet. The drawing also shows the existing grouted riprap and the proposed new concrete pavement. The intersection is located at the intersection of Alameda Drive and Candalaria Road, with the intersection point marked by a star. The drawing includes a north arrow and a scale of 1 inch = 20 feet.

49.72 North

70

68

66

64

62

60

58

49.56

Sta. 14+00.83 Begin Curb Wall

Sta. 14+00

Sta. 14+17.83 E.I. Curb Wall

Construct Handrail Full Length of Wall Both Sides of Street.

Top of Curb Wall E.I. 68.80'

Top of Footing E.I. 66.80'

Build New Concrete Curb Wall and Hand-rail.

T.C.

Top of Riprap E.I. 67.50'

Top of Footing E.I. 65.50'

New Sidewalk

New Finished Grade

CANDELARIA ROAD

New 10" Water-line See Sht. 3-12

Existing 2" MP Gas Line

Existing 24" RCP S.D. Lateral to Remain.

E.I. 62.7' Inv. Exist 24" ϕ

Flow

Inv. E.I. 56.92' $\pm$

0.5%

Sta. 13+74.7

18' $\pm$

Match Existing Invert 56.80' $\pm$ (Verify)

Remove and Reuse Beveled Multiplate Section of North End.

Existing 12'-10" Span X 8'-4" Rise 5 Gauge Corrugated Metal Pipe Arch To Remain. Extend North End.

Existing 30" RCP S.D. To Remain

Existing 48" RCP S.D. To Remain

Inv. E.I. 61.4' $\pm$

Inv. E.I. 59.7' $\pm$

Top of Footing E.I. 58.00'

Inv. E.I. 56.2' $\pm$ (Verify)

1'-0" (Typ)

Sta. 15+00

Sta. 15+00

Sta. 16+00

South

49.72

70

68

66

64

62

60

58

49.56

Construct Handrail Full Length of Wall Both Sides of Street.

Top of Curb Wall E.I. 69.00'

Top of Riprap E.I. 67.50'

New 18" RCP S.D. Lateral Thru Wall.

Inv. E.I. 64.0'

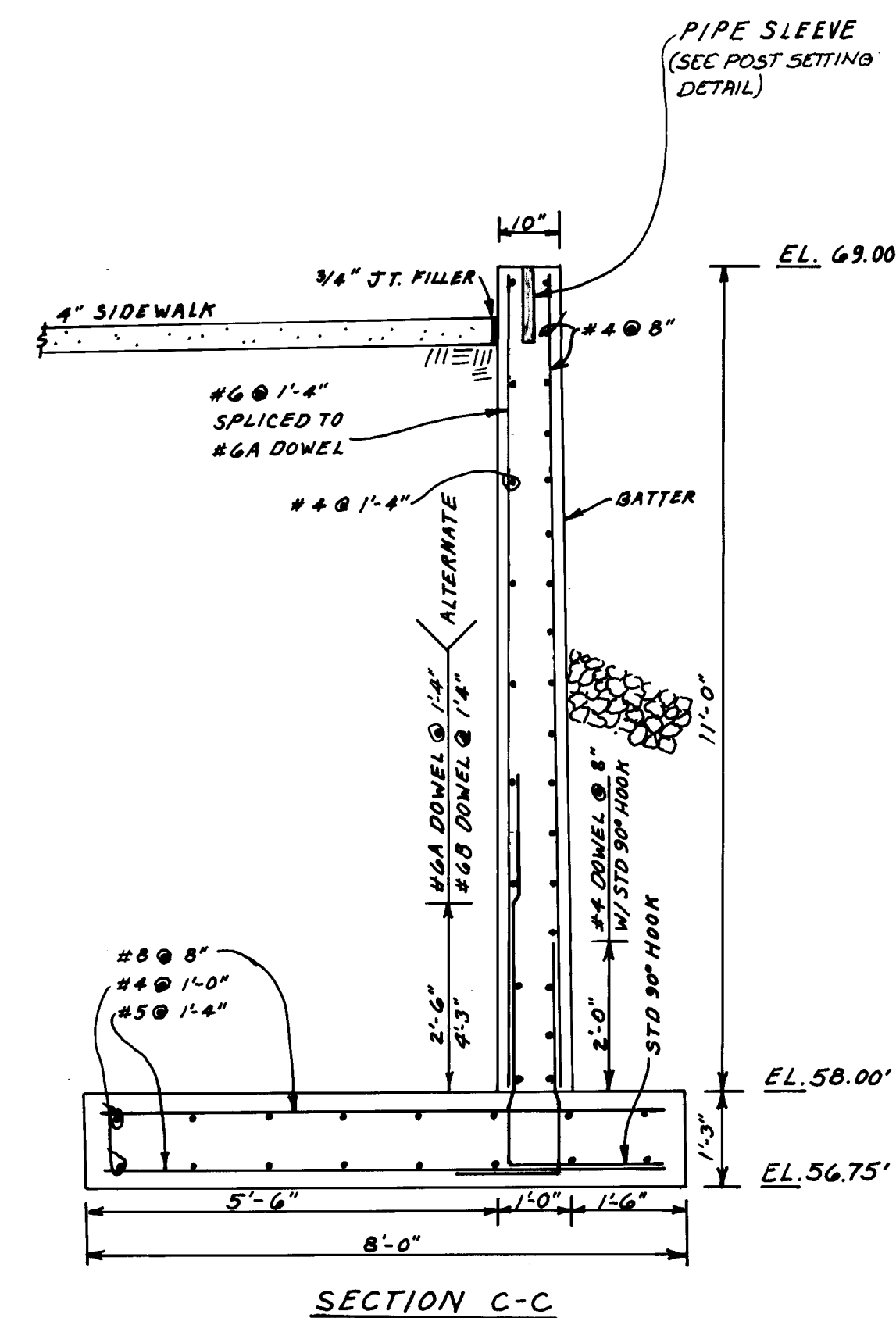
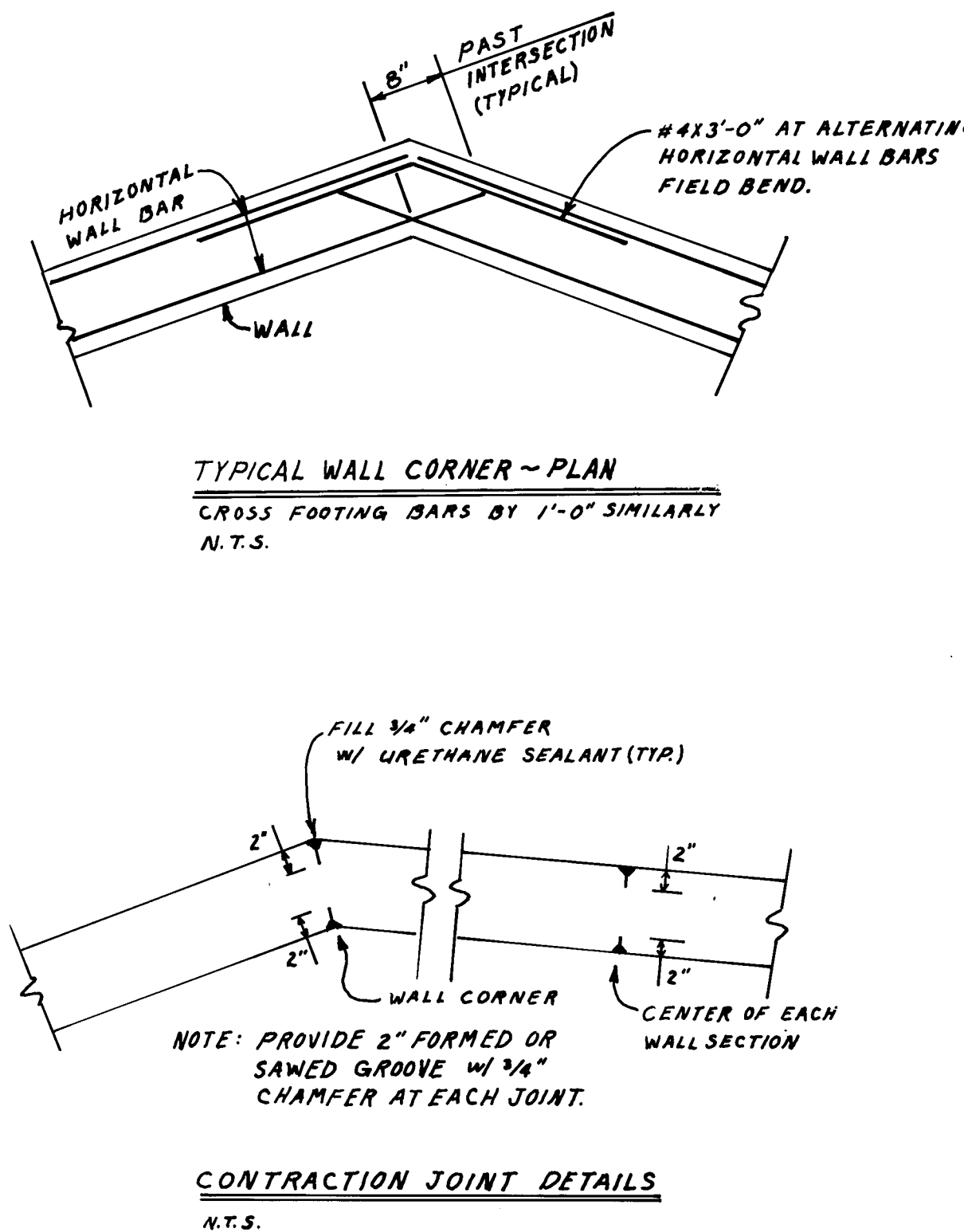
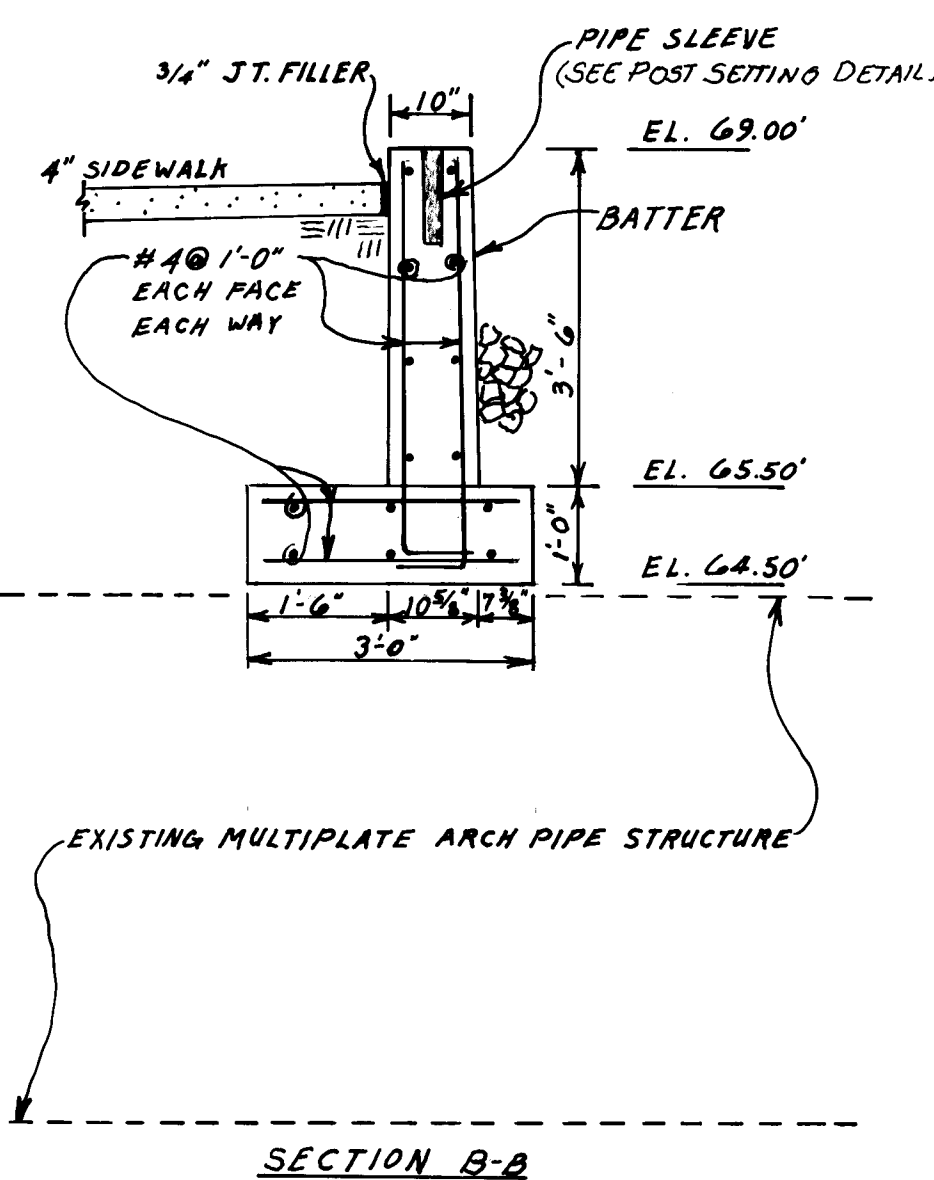
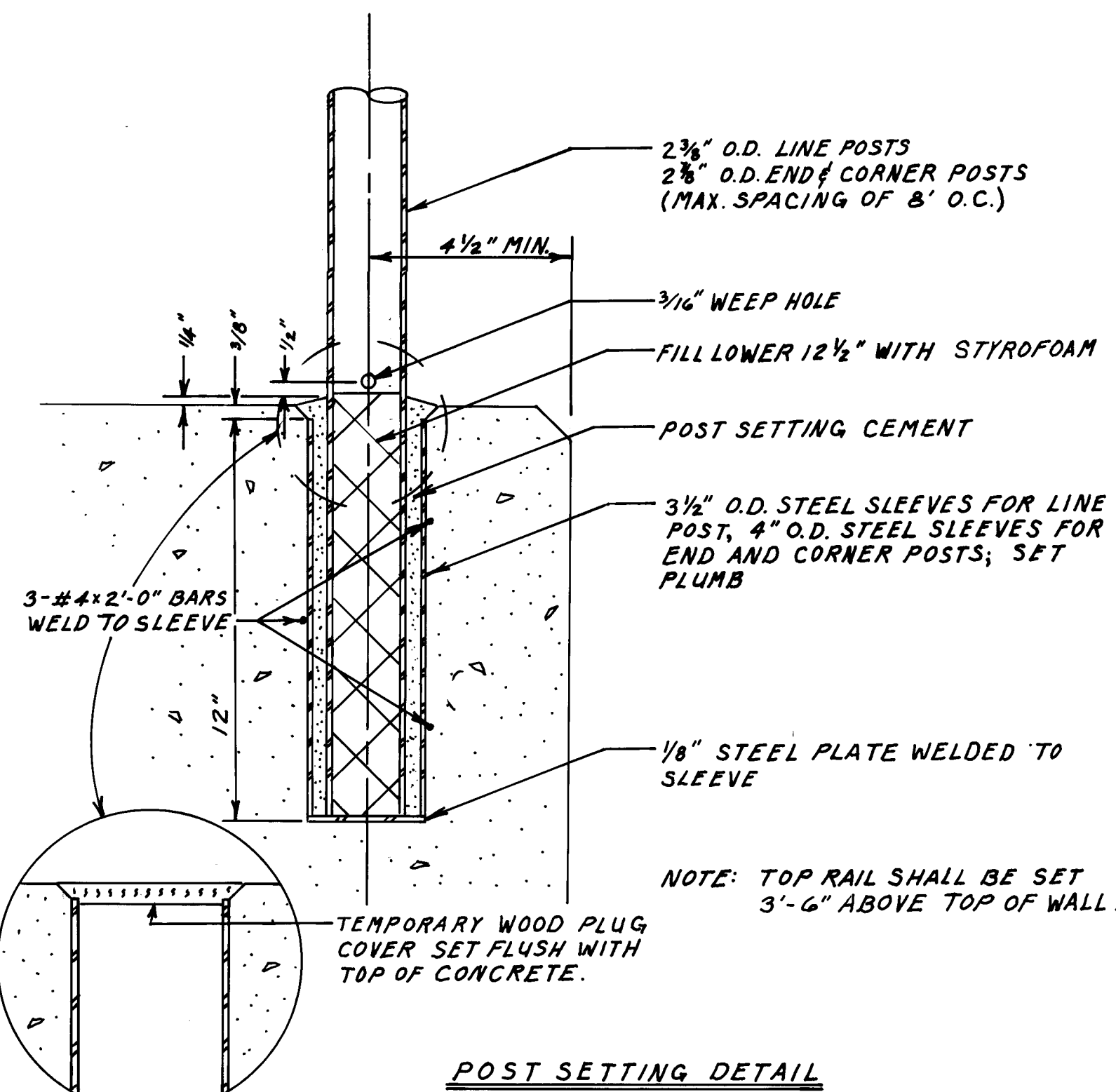
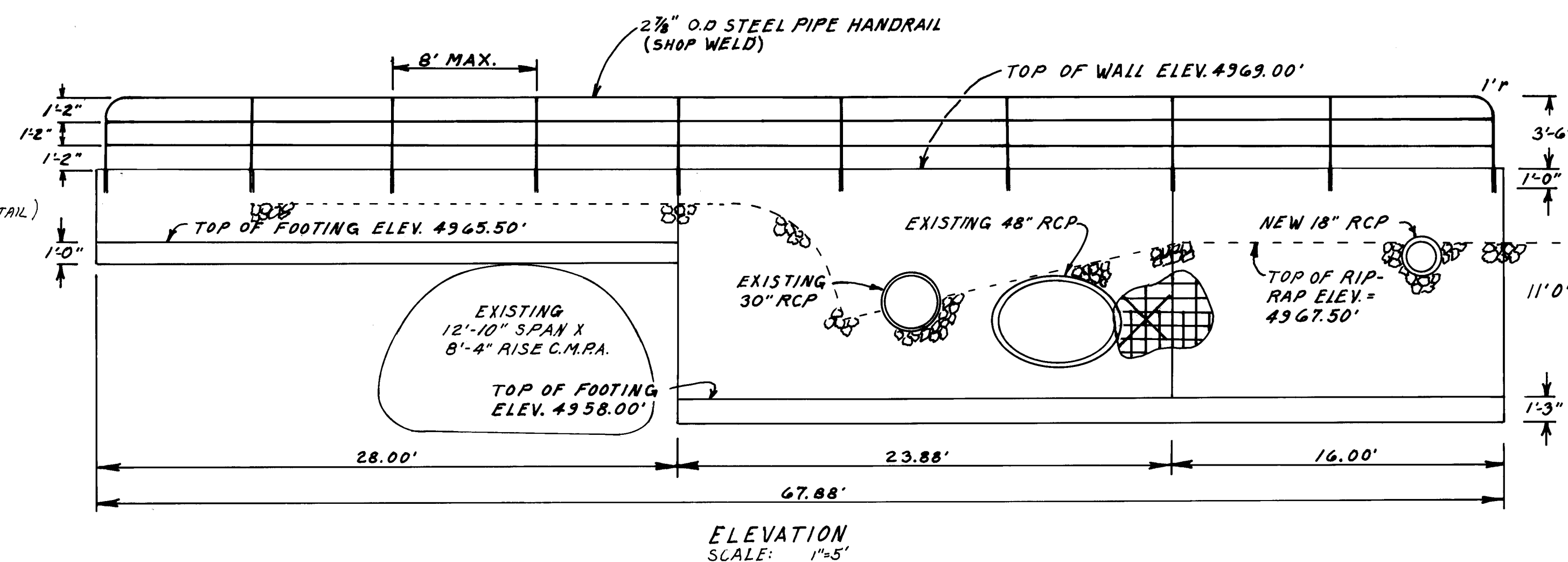
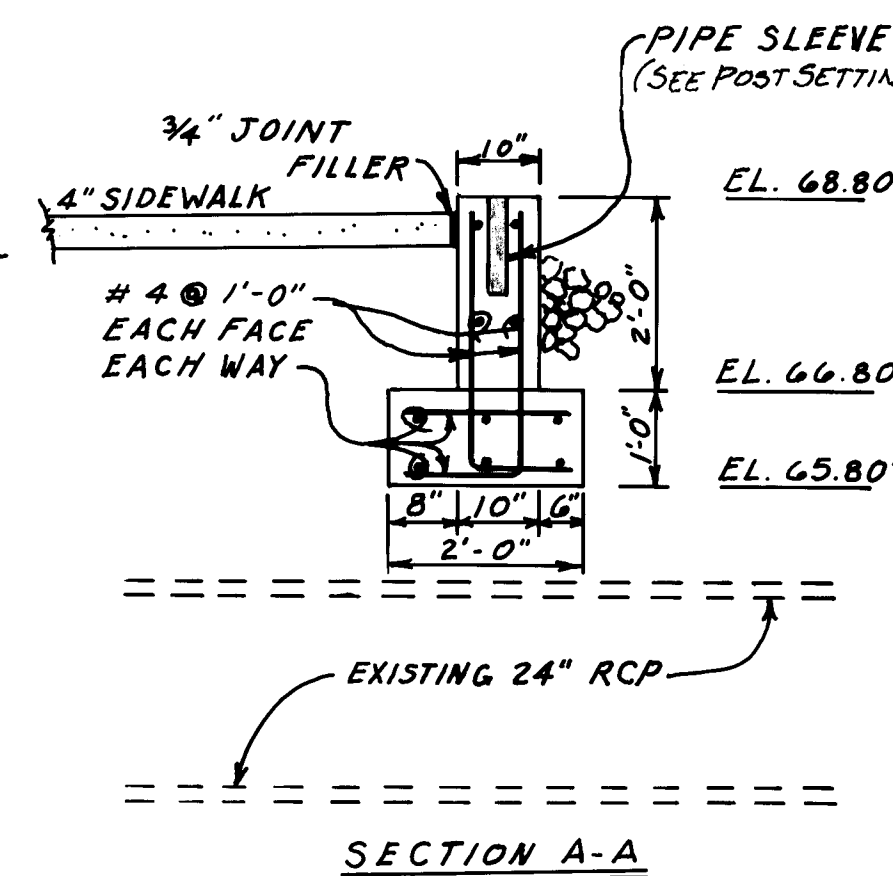
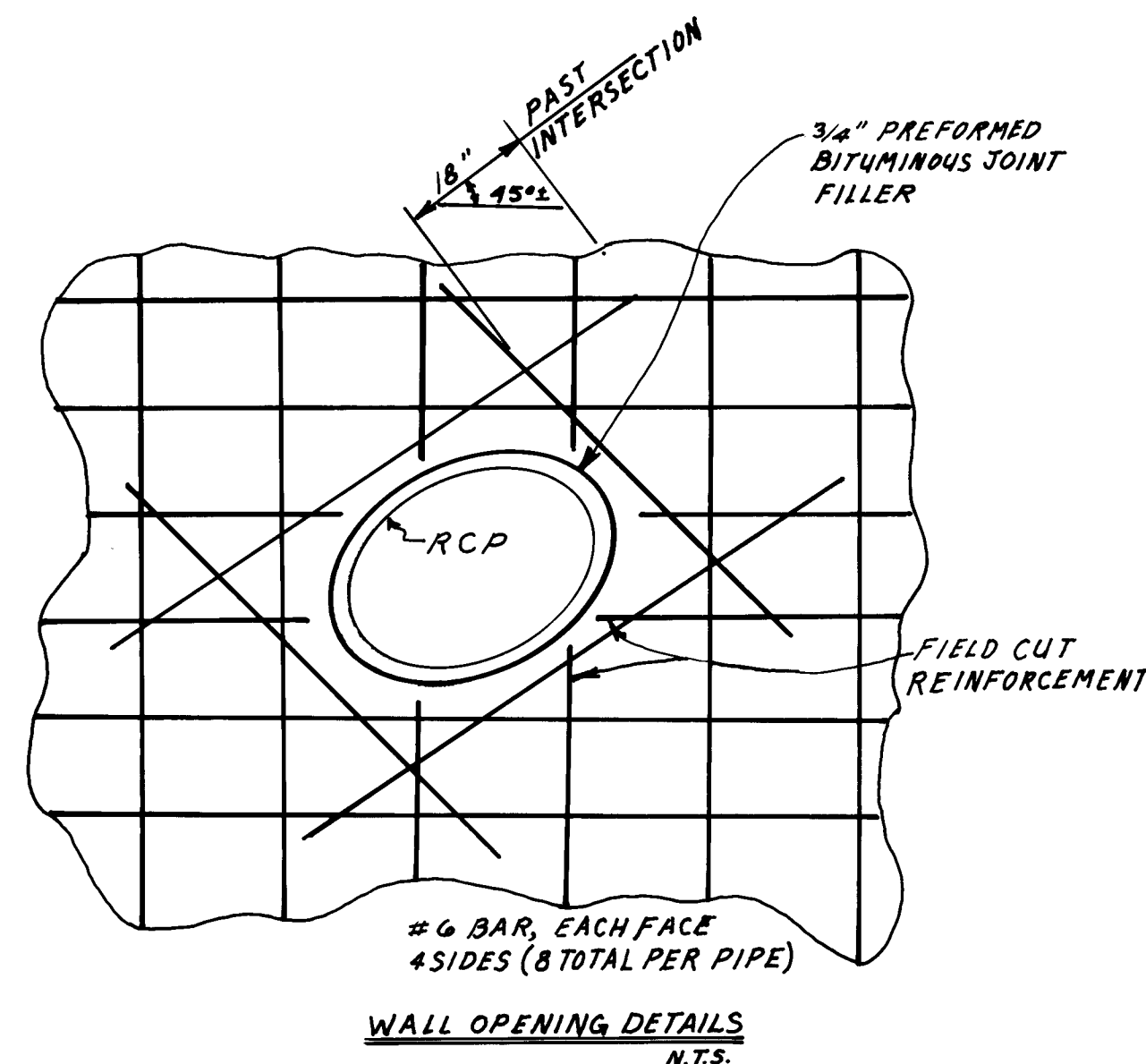
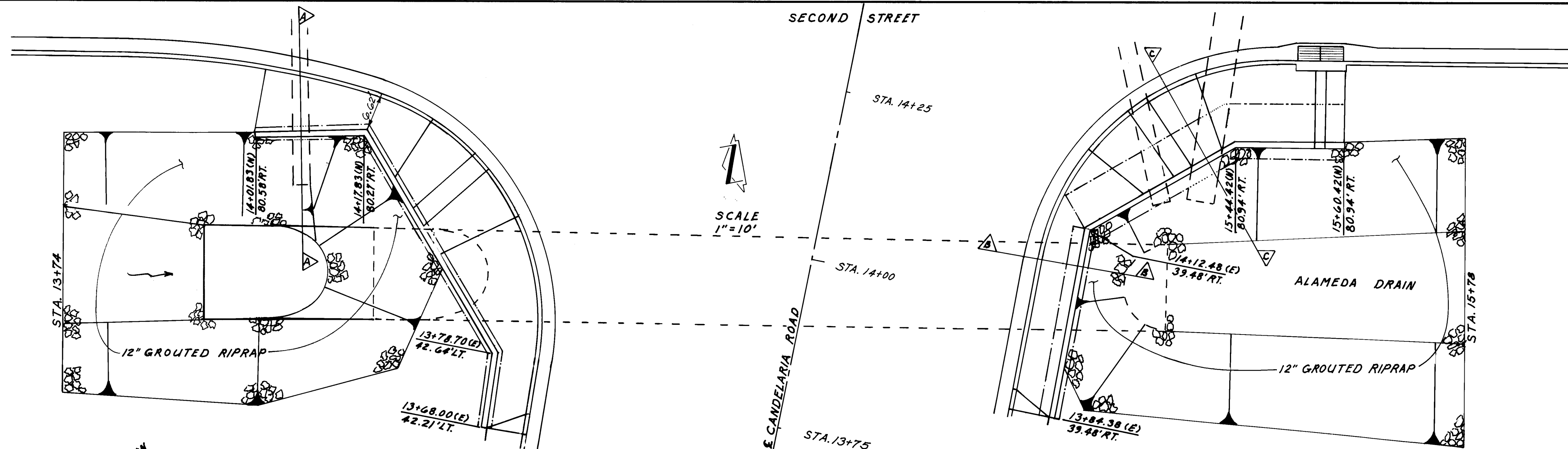
Existing Invert of Drain

Scale: 1" = 1'-0"

SECTION AT ALAMEDA DRAIN

- (1) Remove Existing 30" ϕ 48" RCP Storm Drain Lines As Required To Construct New Retaining Wall. Relay Lines And Form Thru New Wall.
- (2) Form New 18" RCP Lateral Line Thru New Retaining Wall.
- (3) Remove Existing Grouted, Wire Tied Riprap Slope Protection On North And South Ends Of Existing Multiplate Arch Structure. Material May Be Reused If Suitable.
- (4) Extend Existing 12'-10" Span $\times$ 8'-4" Rise C.M.P.A. 24 Feet North On North Side Of Candelaria Road. Reuse Beveled End Section. Contractor To Verify Size And Type of Structure Prior To Ordering Extension Materials.
- (5) Construct Concrete Retaining Wall And Concrete Curb Walls To Lines And Shapes Shown.
- (6) Construct Grouted, Wire Enclosed Riprap Slope Protection To Limits Shown.
- (7) Furnish And Install Pipe Handrail Full Length Of Curb Walls and Retaining Wall. Remove Existing Pipe Railing On Both Sides Of Candelaria Road. Materials May Be Modified And Reused If Suitable.
- (8) Sideslopes And Invert Of Existing Alameda Drain To Be Graded To Match New Construction In 50 Feet Both North And South Sides Of Candelaria Road.
- (9) Areas Between New Curb And Gutter And The Alameda Drain And On The West Side Of The Alameda Drain Within The Right-Of-Way To Be Graded Smooth To Match Surrounding Grades.
- (10) Contractor To Coordinate Construction Of New Curb Wall And Retaining Wall With Telephone Company. Adjustment Of Cable May Be Required And Is To Be Done By Telephone Company. Any Damage By The Contractor To The Cable Will Be His Responsibility.
- (11) Care To Avoid Damage To The 2" MP Gas Line To Be Taken By The Contractor During Construction In This Area.
- (12) Water Flow In Alameda Drain To Be Diverted Around New Construction In Alameda Drain. Payment For This Work To Be Made On A Lump Sum Basis Under Bid Item No. 501XXX. Diversion Of Water Shall Include All Material, Equipment And Labor Required To Divert Water In Alameda Drain During New Construction In The Drain. Payment For This Item Of Work Will Be Made Only If Work Is Authorized By The Project Engineer.
- (13) Payment For Extension Of Existing C.M.P.A. To Be Made Under Bid Item No. 501497 And To Include Removal Of Existing Beveled End, Furnish And Install 24 Feet Of New Pipe Material, Reinstallation Of Beveled End Section, Excavation And Back-Fill.
- (14) Contractor To Notify The Middle Rio Grande Conservancy District Five (5) Working Days Prior To Commencement Of Work In The Alameda Drain. All Work Within The Alameda Drain To Be Coordinated With The M.R.G.C.D.

RECORD DRAWING



F.H.W.A. Region No.		STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
6		NEW MEXICO	M-4035(3)	8-4	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
BY	BY	BY	BY	BY	BY	BY	BY
NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.

MICRO-FILM INFORMATION	
DATE	DATE
BY	BY
NO.	NO.

26 3203.906692

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RETAINING WALL & HANDRAIL
PLANS & DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	9-6-90	WATER	R.W. Kane	9-6-90
TRANSPORTATION	R.W. Kane	9-6-90	WASTE WATER	R.W. Kane	9-6-90
HYDROLOGY	NA				

PROJECT NO. M-4035(3)
C.O.A. 3203

MAP NO. G-14

SHEET 8-4 OF

DESIGNED BY R.L.
DATE 9-5-90

DRAWN BY GWC
DATE 9/5/90

CHECKED BY RLC
DATE 9/5/90

AS BUILT INFORMATION	
CONTRACTOR	
WORK	
INSPECTORS	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO	

BENCH MARKS	
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ENGINEER'S SEAL

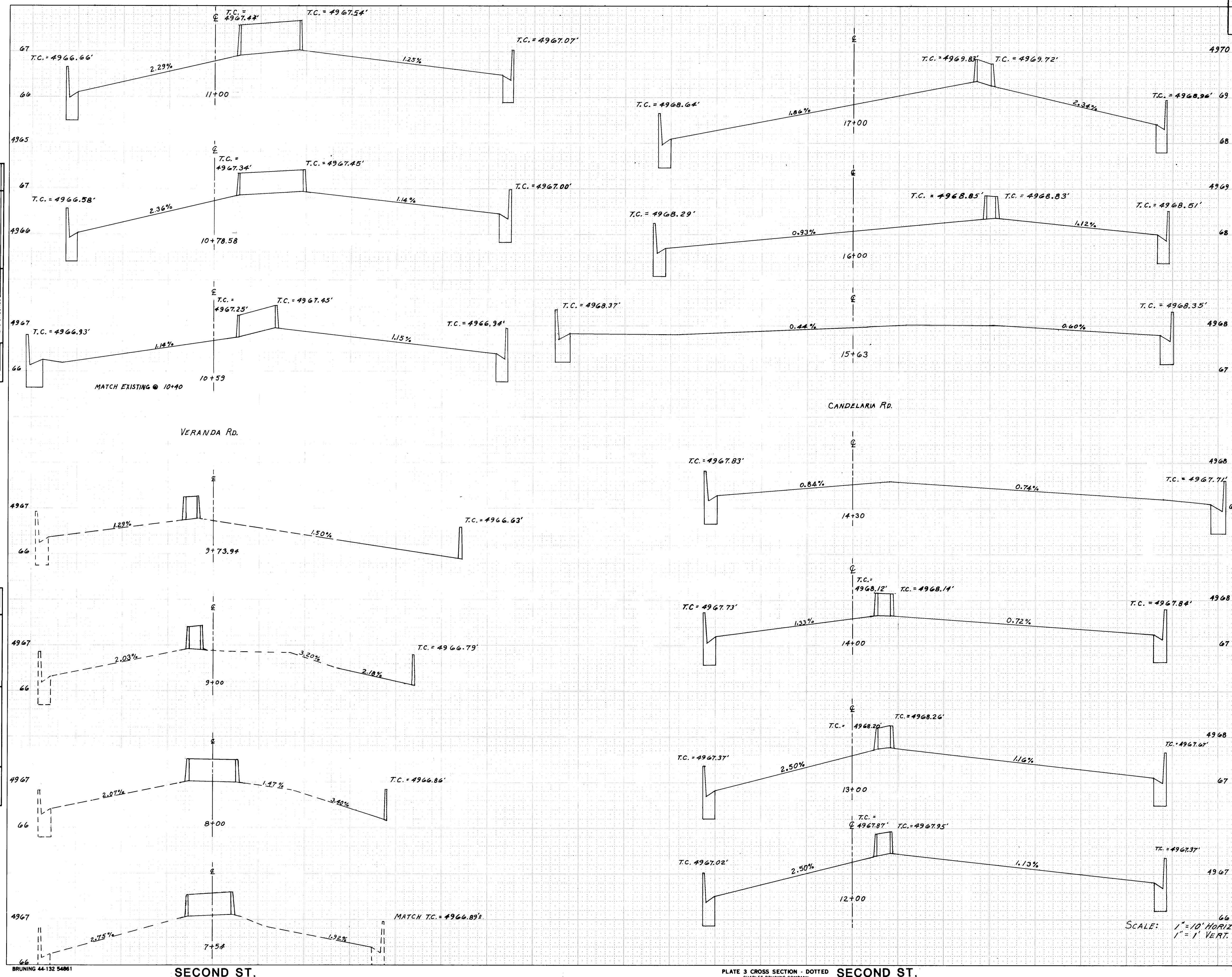
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ROAD CROSS SECTIONS					
SECOND ST., NW STA. 7+53.88 THRU 17+00					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-80	WATER	<i>R.W. Kane</i>	9-6-80
TRANSPORTATION	<i>[Signature]</i>	9-6-80	WASTE WATER	<i>R.W. Kane</i>	9-6-80
HYDROLOGY	<i>[Signature]</i>				

PROJECT M - 4035 (3)	MAP	SHEET 9-1 OF
NO. COA PROJ No 3203	NO. G-14	

12/10/92
RECORD DRAWING



FINAL SURVEY			
NOTE BOOK			
40.			
	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS

ORIGINAL SURVEY		BY		DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

PLATE 3 CROSS SECTION - DOTTED SECOND ST
CHARLES BRUNING COMPANY
MADE IN U.S.A.

AS BUILT INFORMATION	
CONTRACTOR	
WORK TAKEN BY:	DATE
ACCEPTANCE BY:	DATE
FIELD	
VERIFICATION BY:	DATE
MICRO-FILM INFORMATION	
RECORDED BY:	DATE
NO	

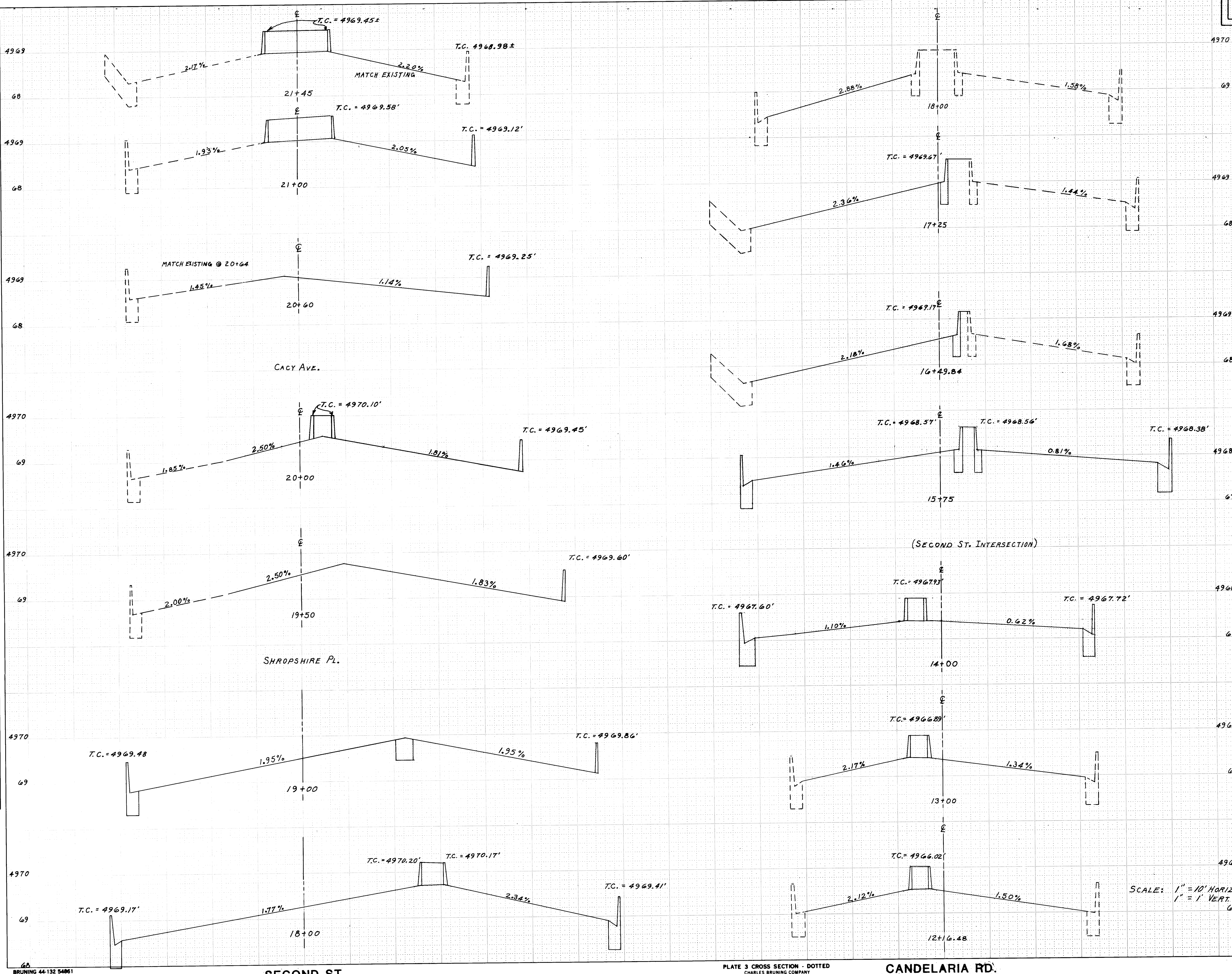
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

ENGINEERING GROUP					
TITLE: ROAD CROSS SECTIONS					
SECOND ST. STA. 18+00 THRU 21+45					
CANDELARIA RD. STA. 12+16.48 THRU 18+C					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	9-6-90	WATER	<i>R.W. Kane</i>	9-6-90
TRANSPORTATION	<i>[Signature]</i>	9-6-90	WASTE WATER	<i>R.W. Kane</i>	9-6-90
HYDROLOGY	<i>[Signature]</i>				

PROJECT M - 4035 (3)		MAP NO. G-14	SHEET 9-2 OF
NO. COA PROJ. No. 3203			



SCALE: 1" = 10' HORIZ.
1" = 1' VERT.

26 3203.906892

[illegible]

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS

ORIGINAL			
SURVEY			
DATE BOOK			
	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

BRUNING 44-132 54861

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY

CANDELARIA RD.

12/10/92
RECORD DRAWING



- A. $4" \times 3" \times \frac{1}{2}" \times 36 \frac{1}{2}" \angle$.
- B. $3 \frac{1}{2}" \times 3" \times \frac{1}{2}" \times 40 \frac{1}{2}" \angle$.
- C. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE "C".
- D. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE "D".
- E. $\frac{1}{2}"$ BOLTS, WITH NUTS TO SECURE ANGLE TO BEAM.
- F. FOR FRAME & GRATE SEE DWGS. 2216, 2220, 2221

	CITY OF ALBUQUERQUE
REVISIONS	DRAINAGE STORM INLET CENTER SUPPORT ASSEMBLY DWG. 2215
	AUG. 1966



A. BEARING BARS, (13) 1/2" X 3 1/2" X 39".

B. END BARS, (2) 1/2" X 3" X 25".

C. CROSS BARS, (7) 1/2" DIA. X 24".

	CITY OF ALBUQUERQUE
REVISIONS	DRAINAGE STORM INLET ALBUQUERQUE GRATE DWG. 2220
	AUG 1986



A. $4'' \times 3'' \times 1/2'' \times 3' - 1/2'' \angle$

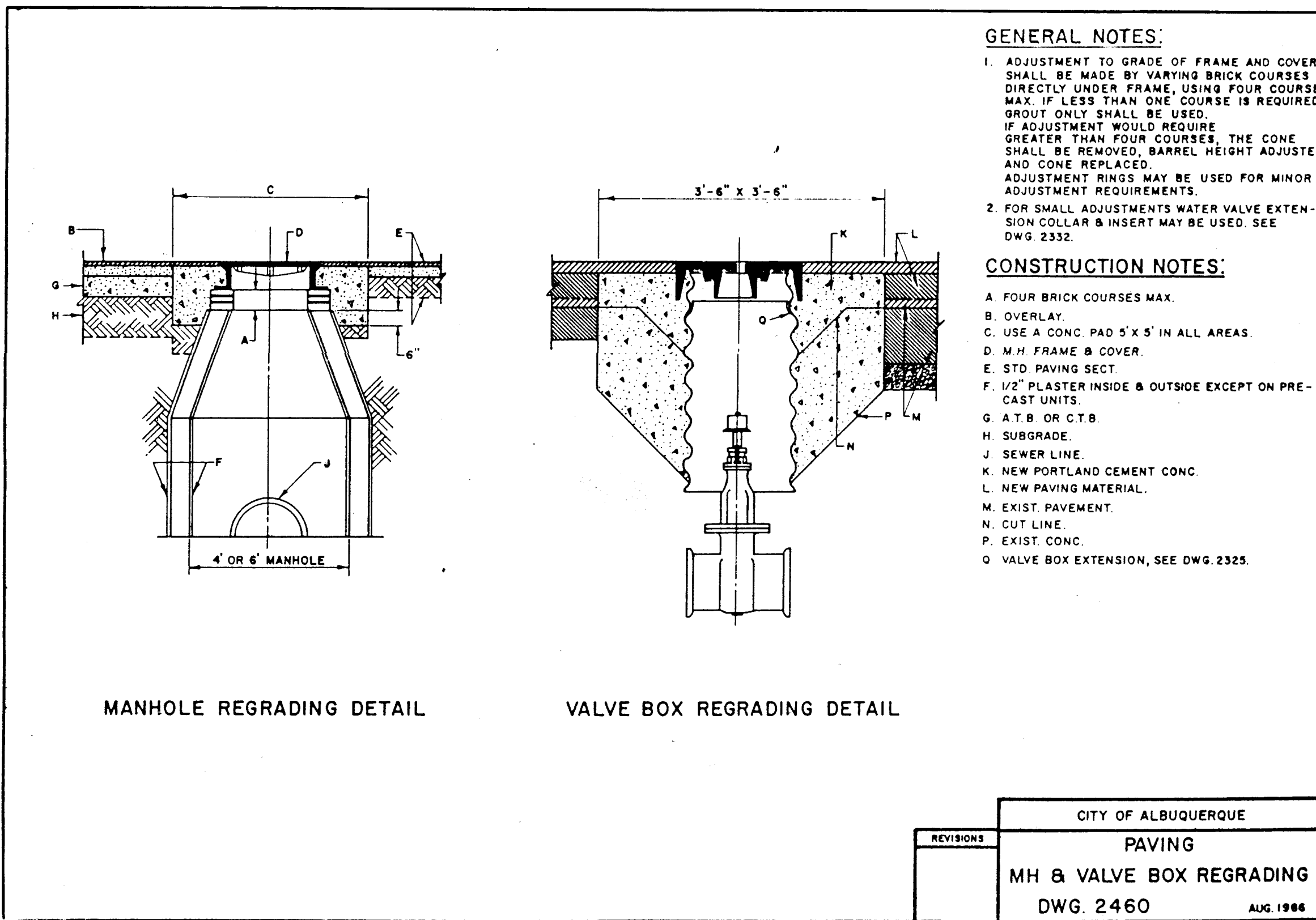
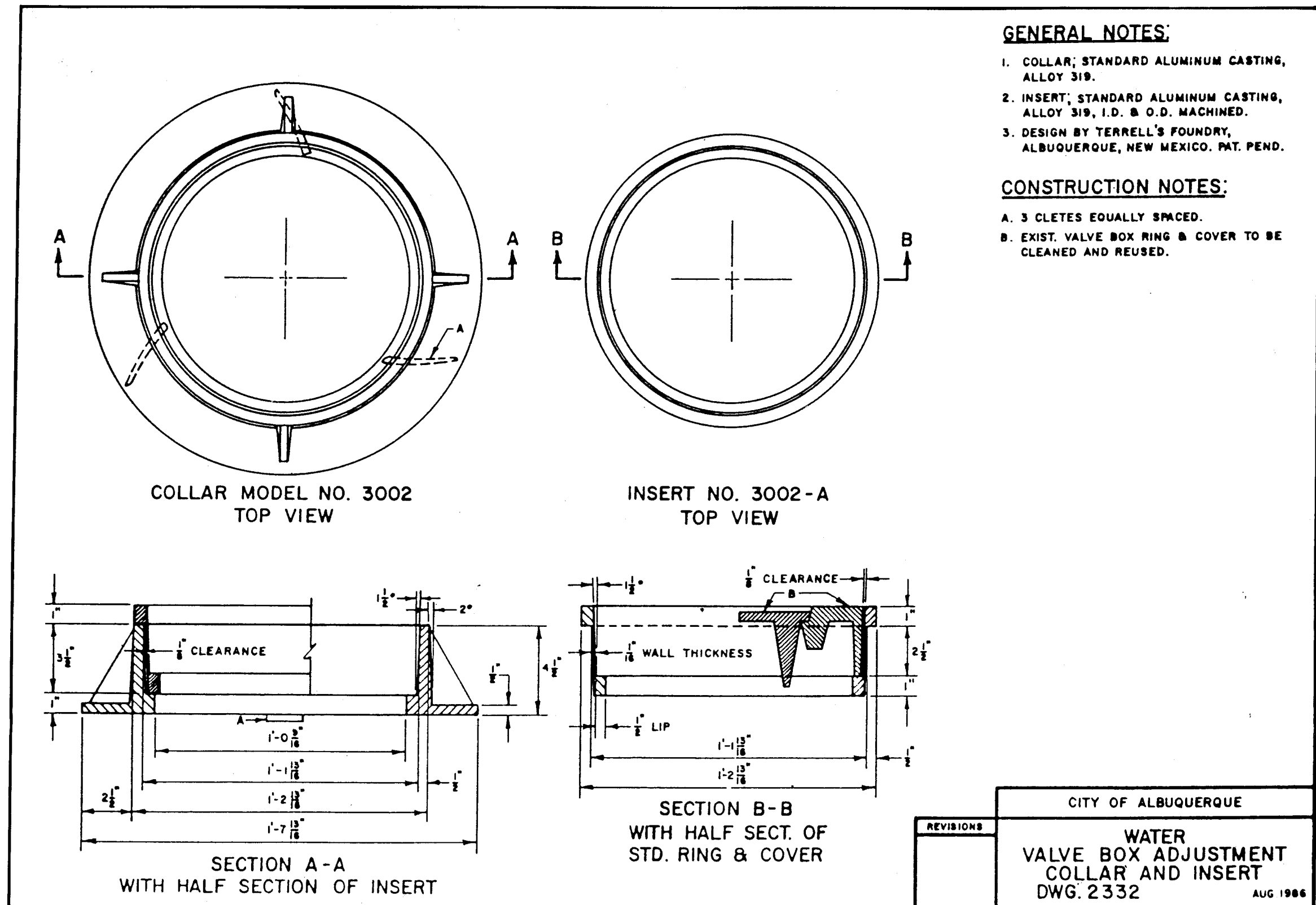
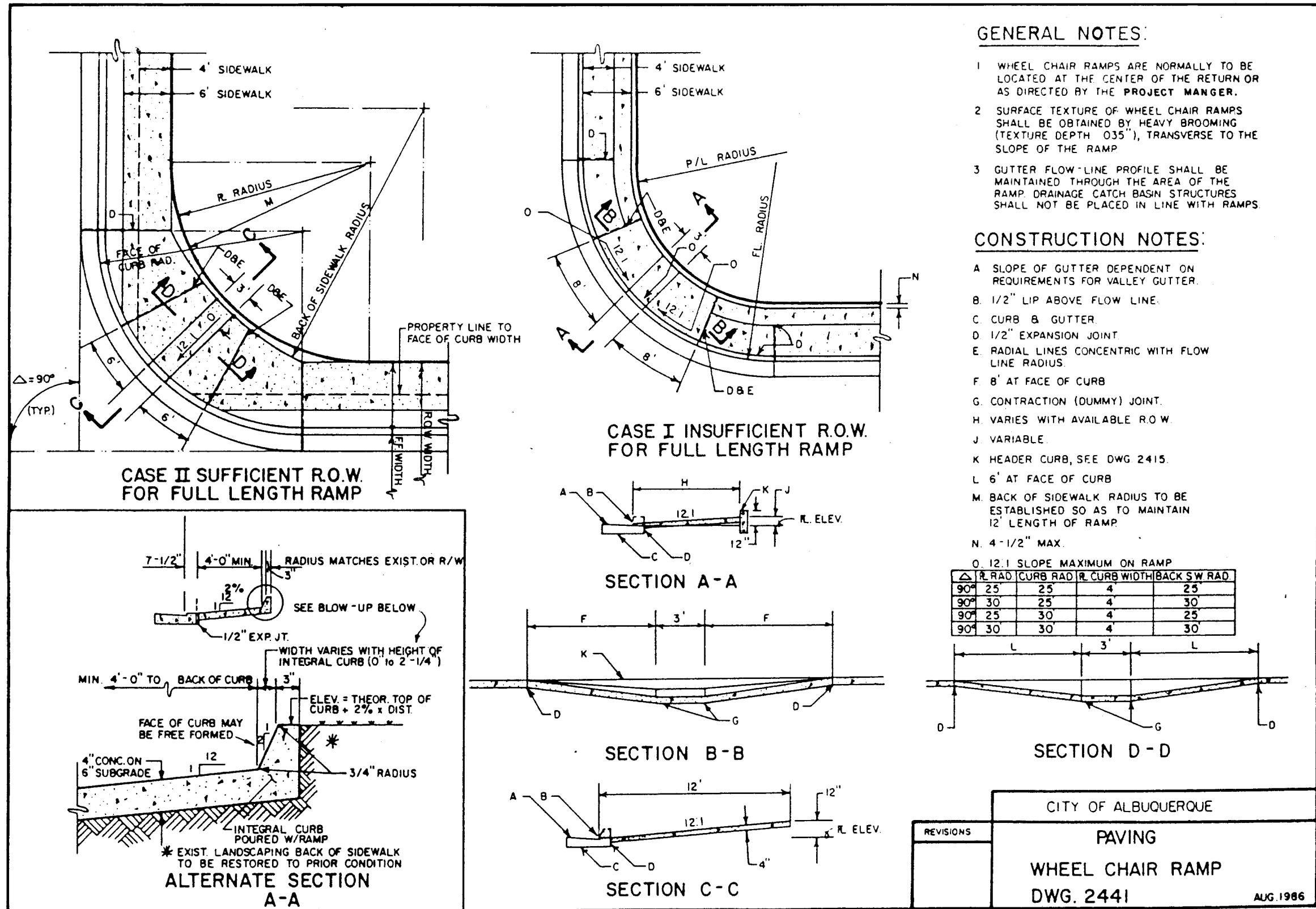
B. 2-3/8" RIVETS AT EACH CORNER, SEE GENERAL NOTE NO. 5.

C. 4'-1/2" x 8" BOLTS WITH SQUARE HEAD & NUT AT EACH CORNER, FOR ANCHORING FRAME INTO CONCRETE WALL.

D. 3-1/2" x 3" x 3/8" x 3' - 4-3/8" $\angle$.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE STORM INLET FRAME DWG. 2216
	AUG. 1984

[illegible]



F.H.W.A. Region No.	STATE	M - 4035 (3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		10-4	

AS BUILT INFORMATION	
DATE	BY

BENCH MARKS	
DATE	BY

SURVEY INFORMATION	
DATE	BY

ENGINEER'S SEAL	
DATE	BY

REVISIONS	
NO.	DATE

DESIGNED BY	
DATE	BY

DRAWN BY	
DATE	BY

CHECKED BY	
DATE	BY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COA-STANDARD DETAILS FOR PAVING
SECOND STREET/CANDELARIA ROAD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

DRC CHAIRMAN	DATE	WATER	WASTE WATER

TRANSPORTATION	DATE	WASTE WATER	WASTE WATER

HYDROLOGY	DATE	WASTE WATER	WASTE WATER

PROJECT NO. M - 4035 (3)
COA PROJ. No. 3203

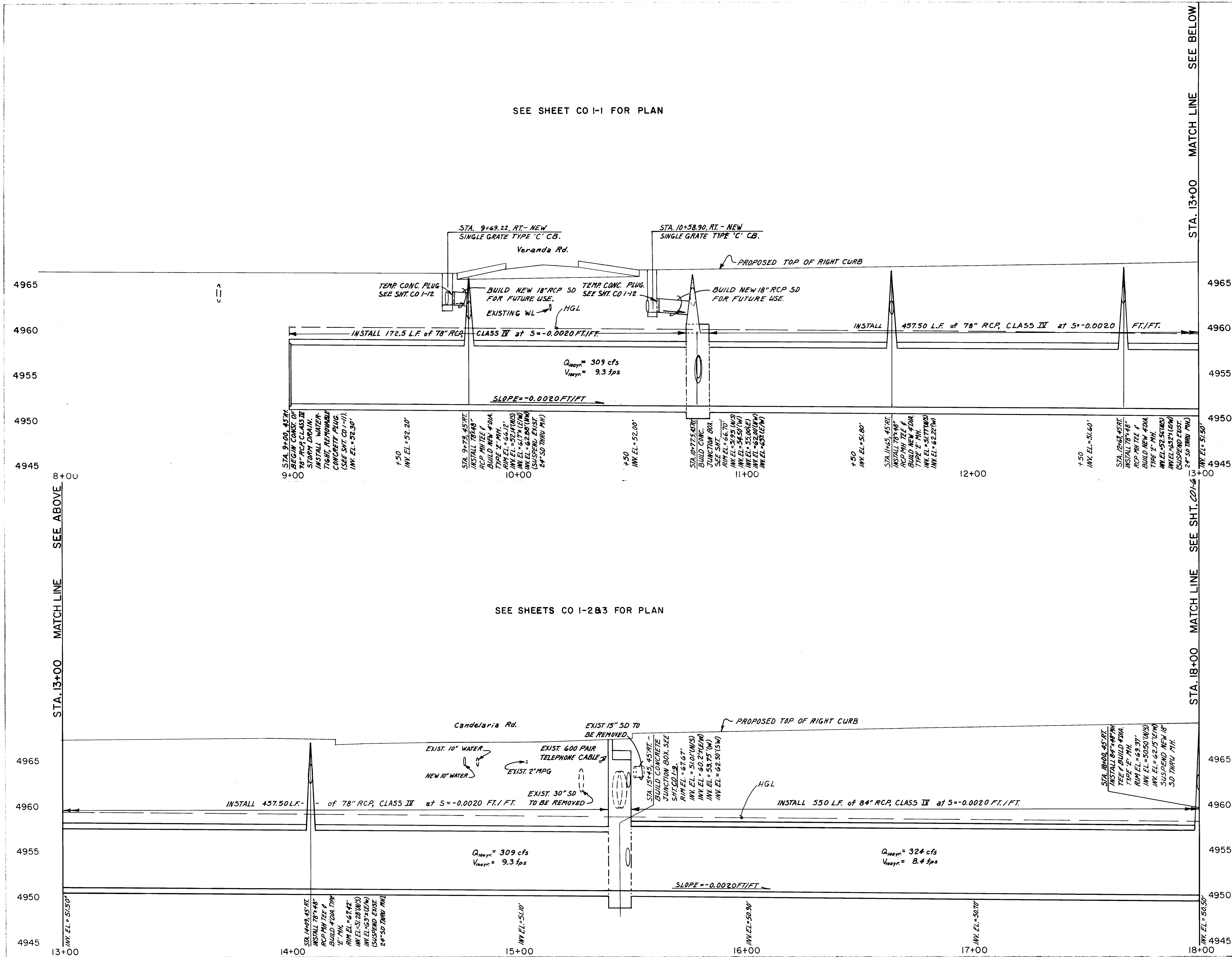
MAP NO. G-14

SHEET 10-4 OF

26 3203.907292

12/10/92

RECORD DRAWING



**CHANGE ORDER NO. 1
STORM DRAIN NOTES**

- A.) ALL EXISTING RCP REMOVED DUE TO TRENCHING FOR THE NEW STORM DRAIN TRUNK LINE SHALL BE REMOVED COMPLETELY TO THE ALAMEDA DRAIN ON THE WEST SIDE OF THE TRENCH AND SHALL BE REPLACED WITH NEW RCP OF LIKE SIZE, CLASS III. CONNECTION TO EXISTING RCP SHALL BE MADE BY MEANS OF A CONCRETE COLLAR (SEE C.O. #1 SHEET CO-1-IL).
- B.) ALL PUBLIC & PRIVATE UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES DURING CONSTRUCTION.

26 3203.907792

CHANGE ORDER No. 1 4/91

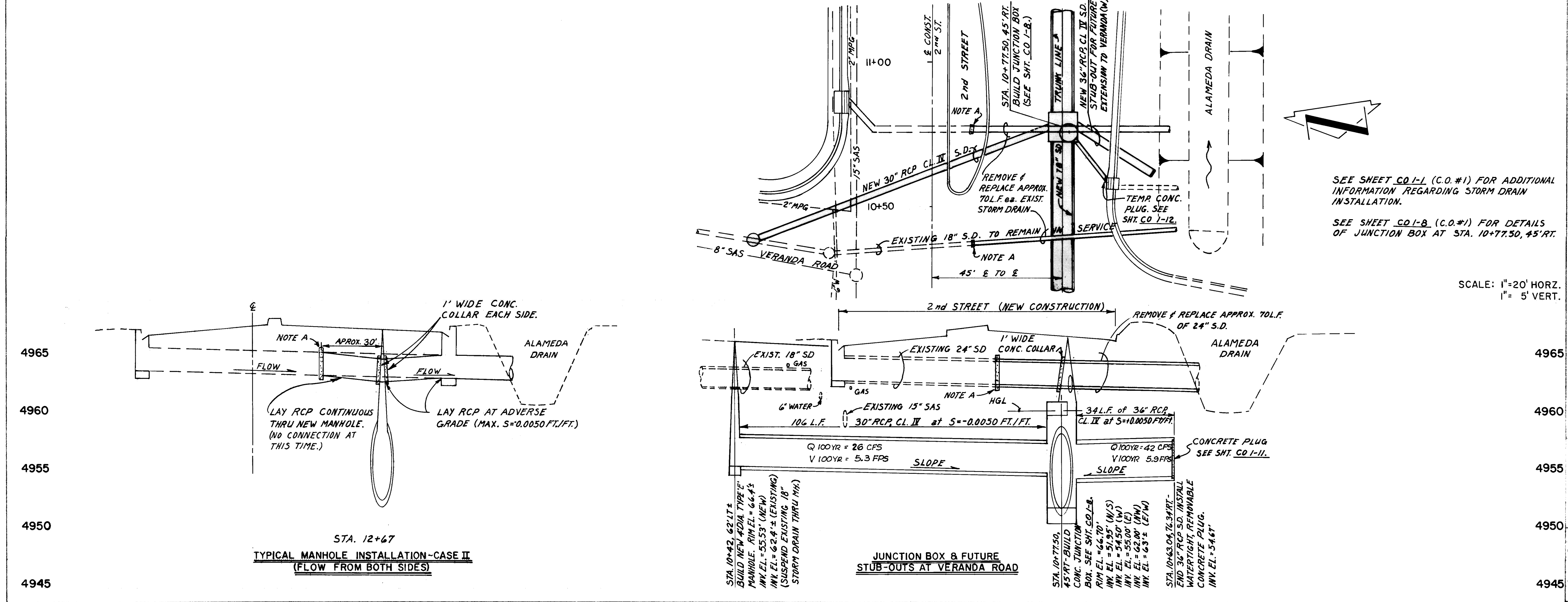
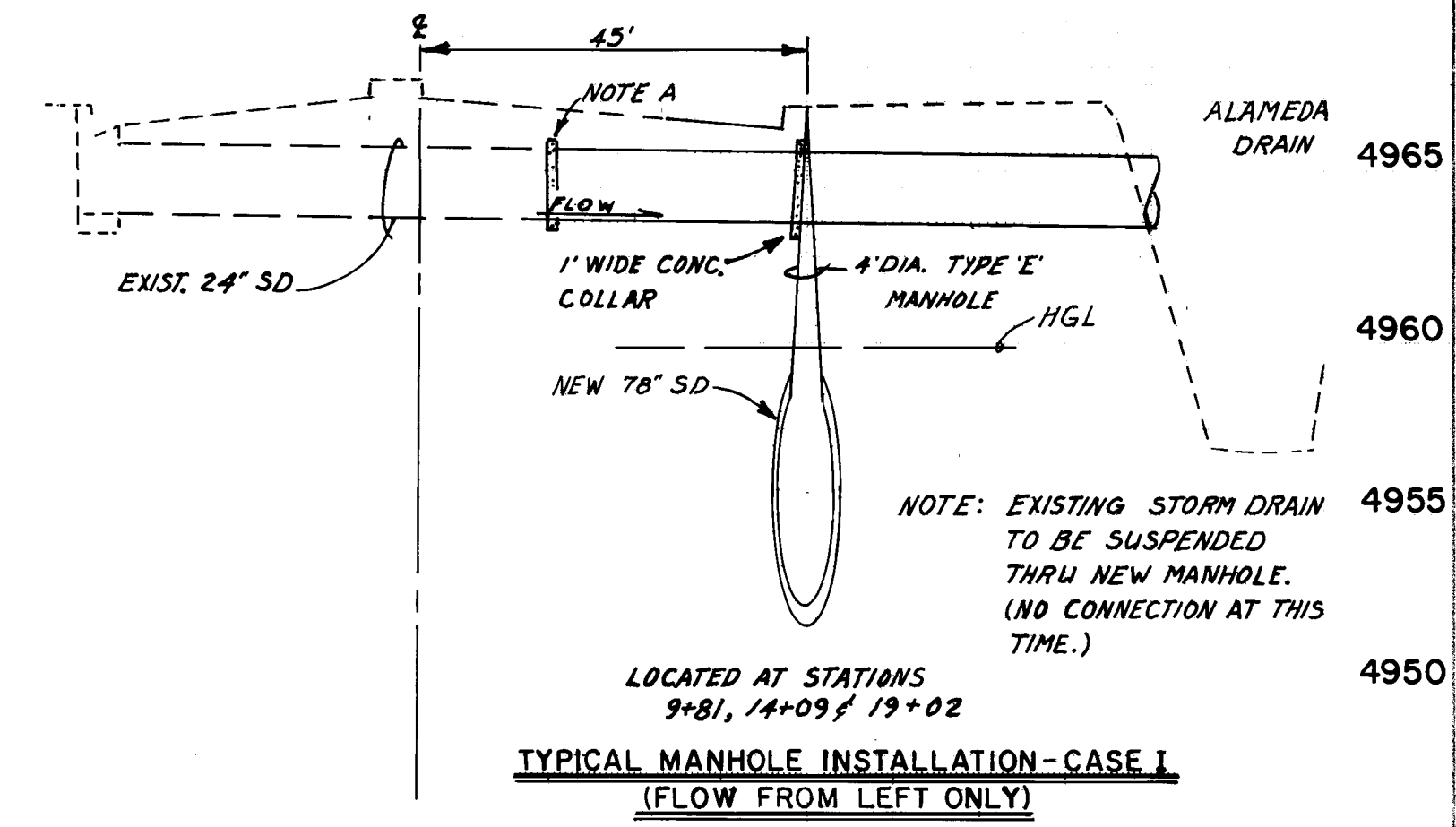
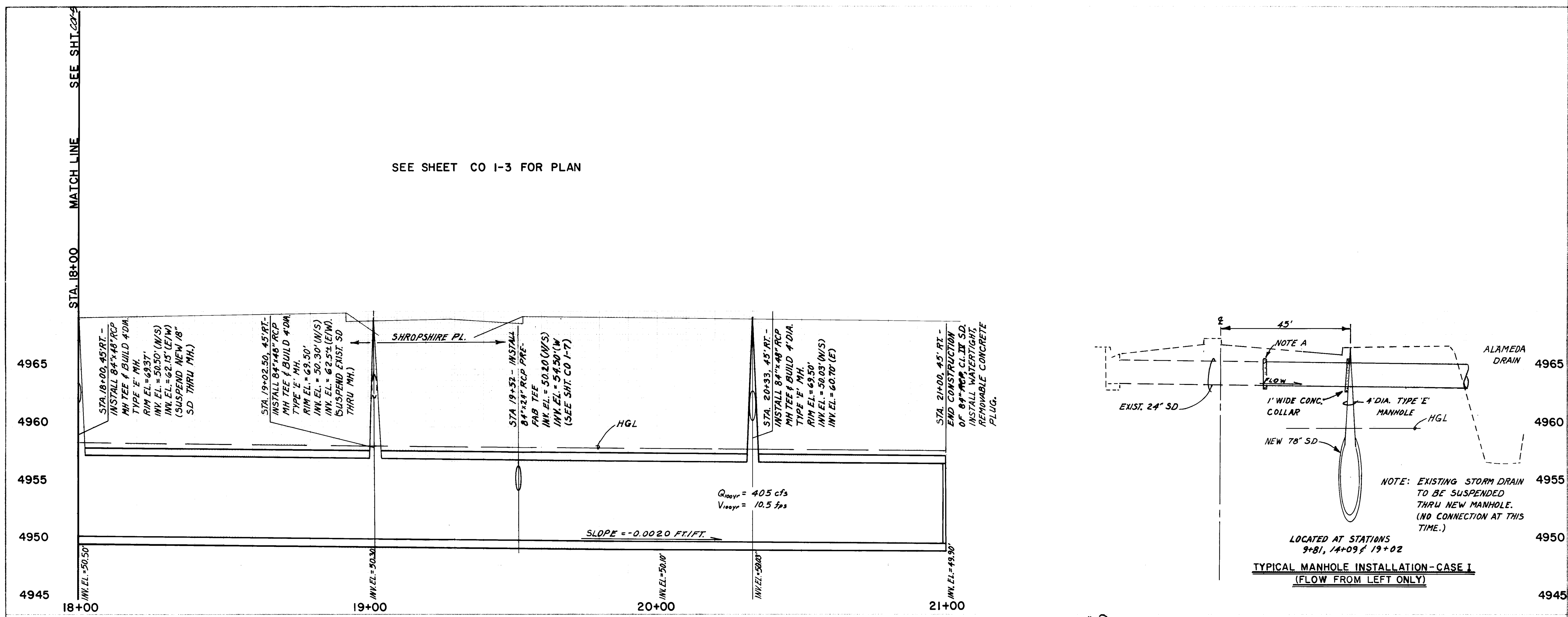
CITY OF ALBUQUERQUE
MUNICIPAL DEPARTMENT OF PUBLIC
ENGINEERING DIVISION
TITLE: 2nd/CANDELARIA INTERSECTION
2nd ST. NORTH STORM DRAIN
TRUNK LINE PROFILE

Revised 5/3/91
Steve Bailey 5/3/91
R.L. GARCIA 5-3-91
REL. 4/24/91

DRAWING NO. 4035 (3)
C.O.A. 3203
MAP NO. G-14
SHEET OF CO-1-5

RECORD DRAWING

ENGINEER'S SEAL		REVISIONS		REMARKS		DATE		BY		
		DESIGN	4/91	DATE	4/91	DATE	4/91	DATE	4/24/91	
		REL.	GARCIA	5-3-91	REL.	GARCIA	5-3-91	REL.	GARCIA	5-3-91



CHANGE ORDER No. 1
STORM DRAIN NOTES

A.) ALL EXISTING RCP REMOVED DUE TO TRENCHING FOR 18" OR 84" STORM DRAIN SHALL BE REPLACED WITH NEW RCP OF LIKE SIZE, CLASS II. CONNECTIONS TO EXISTING RCP SHALL BE MADE BY MEANS OF CONCRETE COLLARS (SEE SHT. CO. II). EXISTING RCP FROM TRENCH TO THE ALAMEDA DRAIN SHALL BE REPLACED WITH NEW RCP.

B.) ALL PUBLIC & PRIVATE UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES DURING CONSTRUCTION.

26 3203.907892

CHANGE ORDER No. 1 4/91

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

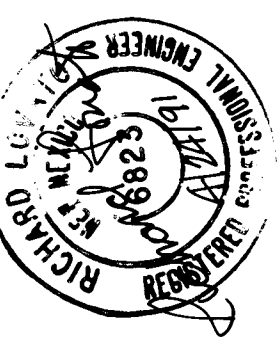
TITLE
2nd/CANDELARIA INTERSECTION
2nd ST. NORTH STORM DRAIN
MISCELLANEOUS PROFILES

APPROVAL	ENGINEER	DATE	APPROVAL	ENGINEER	DATE
City Engineer	Reginald	5/3/91	Liquid Waste	J. White	5-3-91
A.C.E. Design			Traffic	R. Dwyer	5-01-91
A.C.E. Hydrology	Steve Boley	5/3/91	Water	He	5-3-91

DRAWING NO.	4035 (3) C.O.A. 3203	MAP NO.	G-14	SHEET	OF
				CO I-6	

RECORD DRAWING

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		BY		DATE		DATE	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE



12/10/92

STORM DRAIN DIVERSION
STA. 15+32.5, 42.5' LT. * TO STA. 15+52, 32' LT. *

STA. 15+48.5, 50' RT. (N)
BEGIN CONSTRUCTION
OF 24" RCP, CLASS IV
STORM DRAIN AT
JUNCTION BOX.

15+45
SECOND STREET
CENTRALINE

STA. 15+00 (N) EQU.
STA. 15+00 (E)

TEMP CONC
PLUG, SEE
SHT. 101-112

ALAMEDA
DRAIN

45 LF CONC. ENCASEMENT.
SEE C.O.A. STD. DWG. 2140
SEE NOTE 3 THIS SHEET.

STA. 15+50, 125' RT. (N)
EQU. STA. 15+85.13, 101' RT. (E)
BUILD NEW 4' DIA. TYPE 'E'
MANHOLE.

STA. 13+70, 24' RT. (E)
BUILD NEW 4' DIA. TYPE 'E'
MANHOLE.

14
CANDELARIA ROAD
CENTERLINE

13
8' SAS

12

NEW CONC. PVMT, ASPH. PVMT.

1" = 20' HORIZ.
1" = 5' VERT.

CANDELARIA RD. STORM DRAIN EXTENSION

PROPOSED GRADE
2" ST.

JUNCTION BOX

RETAINING
WALL

ALAMEDA
DRAIN

SEE NOTE 3
THIS SHEET

45 LF CONC. ENCASE.
SEE C.O.A. STD. DWG. 2140

INSTALL 73 LF. 24" RCP CLASS IV
@ 5+0.0100 FT/FT.

STA. 15+50, 125' RT.
EQU. STA. 15+85.13,
101' RT. (CANAD.) - BUILD
4' DIA. MH, TYPE 'E'.
RIM EL. = 67.70'.
INV. EL. = 54.48' (E)
INV. EL. = 54.40' (N)

STA. 13+70, 24' RT. - BUILD
4' DIA. MANHOLE TYPE 'E'.
RIM EL. = 66.87'.
INV. EL. = 56.30' (S)
INV. EL. = 56.40' (N)

13+70

PROPOSED GRADE CANDELARIA ROAD

HGL

INSTALL 158 LF OF 24" RCP CL. II @ 5+0.0050 FT/FT.

EXIST. SAS

$Q_{100YR} = 13 \text{ CFS}$
 $V_{100YR} = 4.1 \text{ FPS}$

13+00

EAST-WEST STATIONING

12+00

STA. 12+10, 24' RT. - END
CONSTRUCTION OF 24" RCP
CLASS II STORM DRAIN.
INSTALL WATERTIGHT,
REMOVABLE CONCRETE PLUG.
INV. EL. = 51.19'

1. ALL EXISTING RCP REMOVED DUE TO TRENCHING FOR 78" OR 84" STORM DRAIN SHALL BE REPLACED WITH NEW RCP OF LIKE SIZE, CLASS IV. CONNECTIONS TO EXISTING RCP SHALL BE MADE BY MEANS OF A CONCRETE COLLARS (SEE SHT. CO-1-11.) EXISTING RCP FROM TRENCH TO THE ALAMEDA DRAIN SHALL BE REPLACED WITH NEW RCP.
2. ALL PUBLIC & PRIVATE UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
3. STORM DRAIN CROSSING ALAMEDA DRAIN TO BE INSTALLED AT SAME TIME AS RETAIN WALL AND PIPE EXTENSION ARE BEING PREFORMED WHEN DIVERSION OF WATER IN ALAMEDA DRAIN IS BEING PERFORMED.

CHANGE ORDER No. 1 4/91

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE	2nd/CANDELARIA INTERSECTION 2nd ST. NORTH STORM DRAIN MISCELLANEOUS PROFILES
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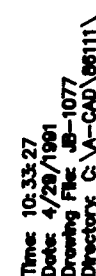
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Reginald</i>	<i>5/3/91</i>	Liquid Waste	<i>NCO</i>	<i>5-3-91</i>
A C E Design	<i>u</i>	<i>u</i>	Traffic	<i>R. Deute</i>	<i>5-3-91</i>
A C E Hydrology	<i>Stine</i>	<i>5/3/91</i>	Water	<i>NCO</i>	<i>5-3-91</i>

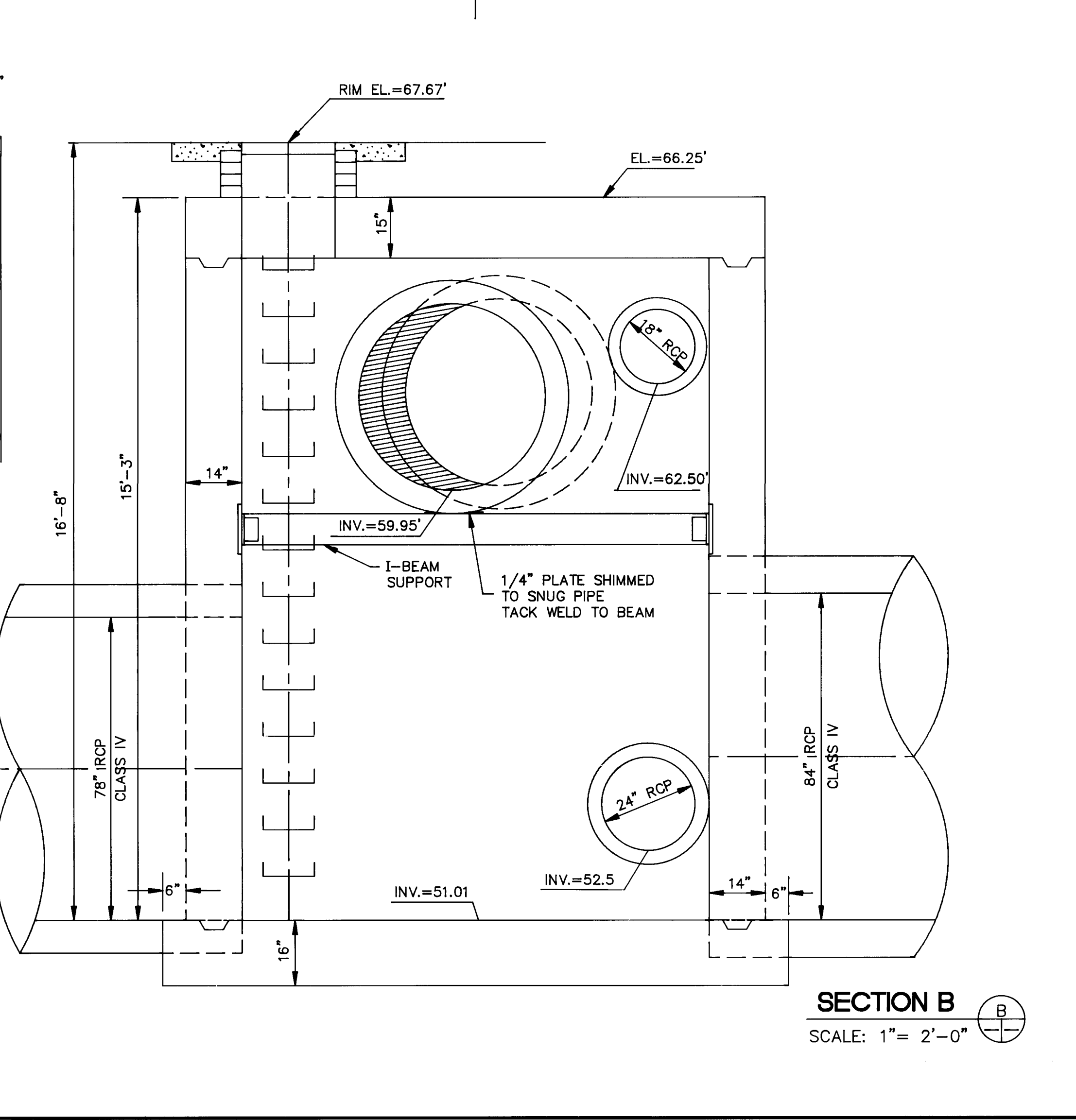
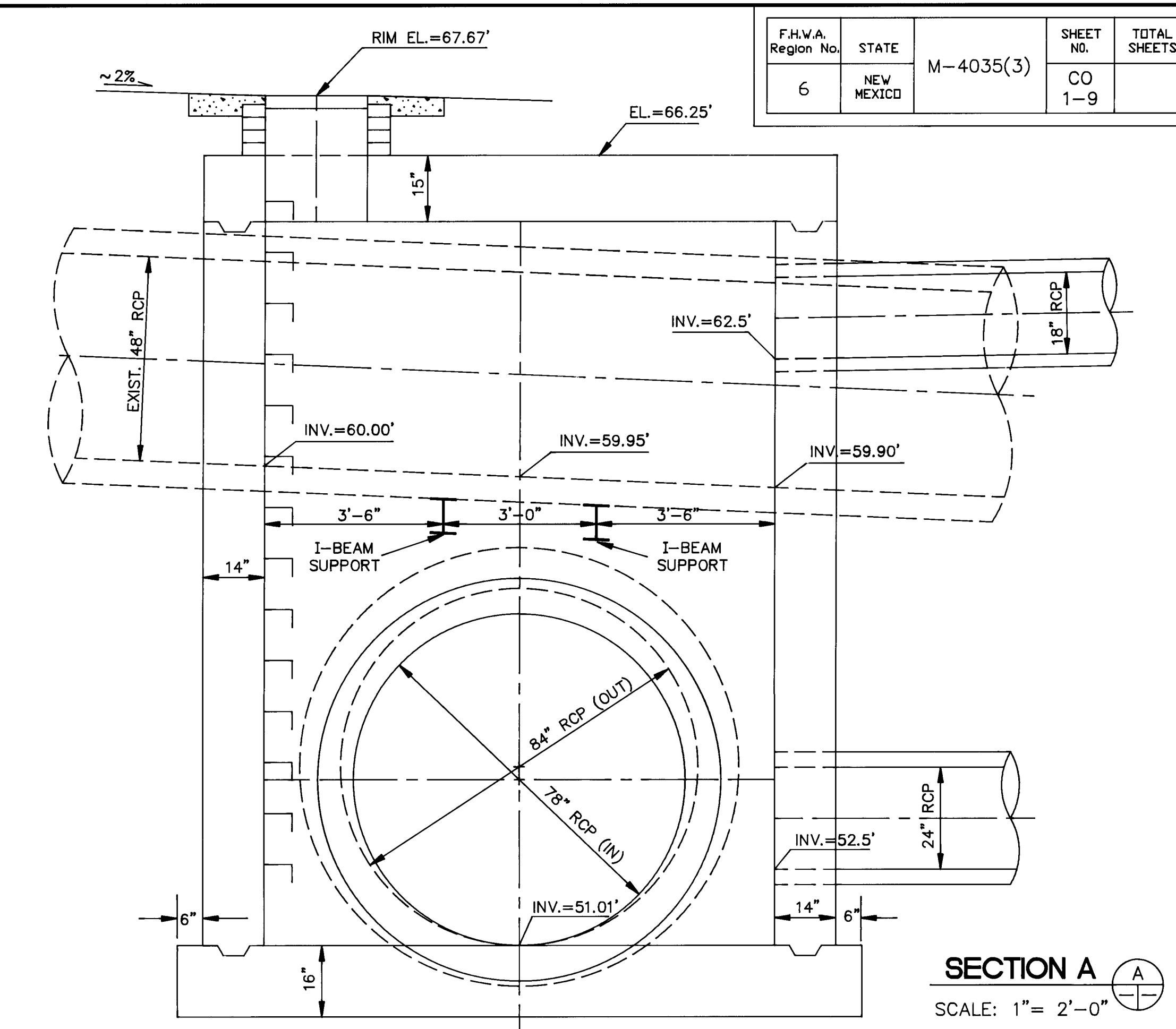
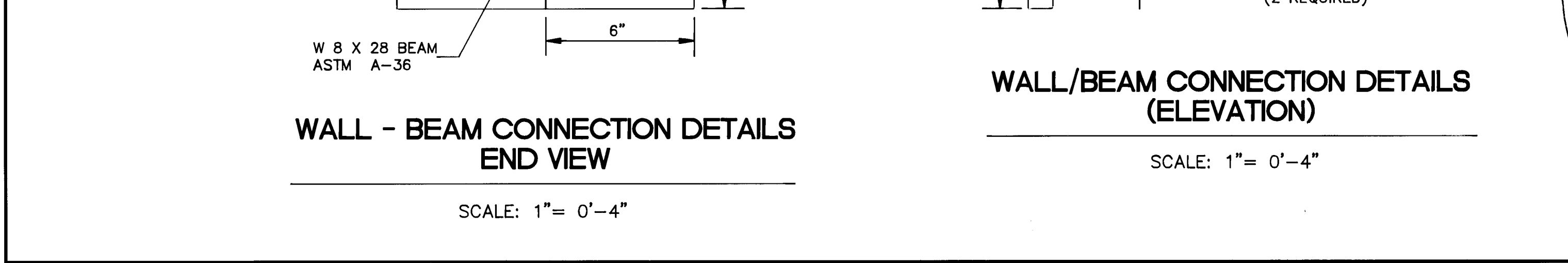
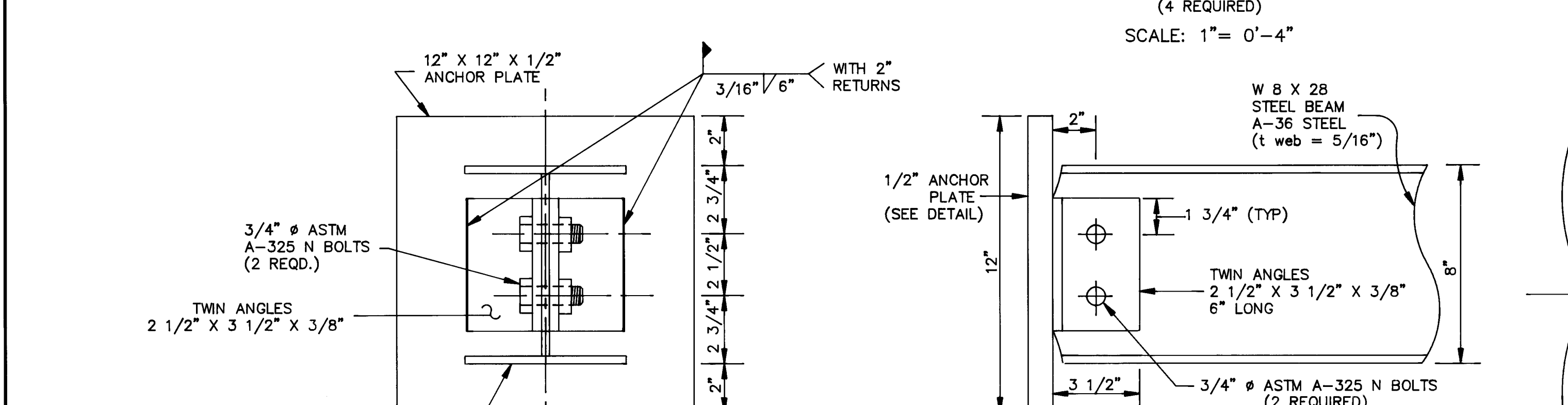
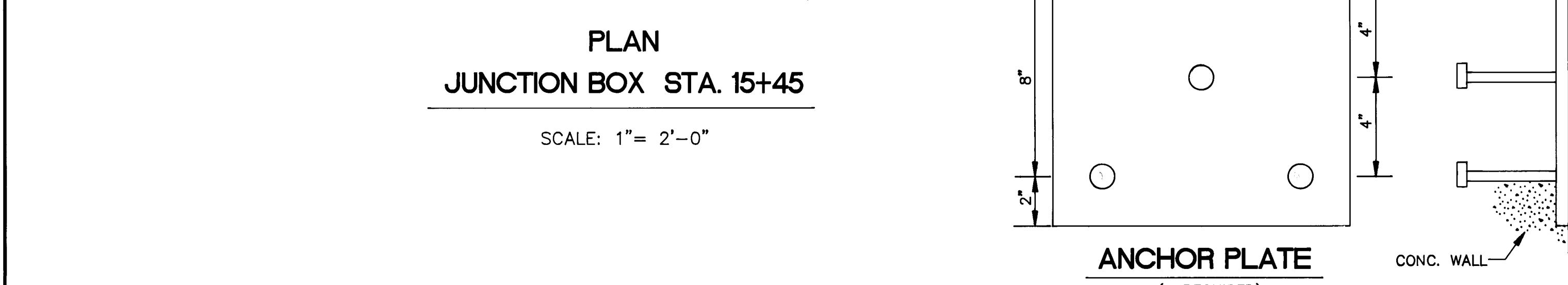
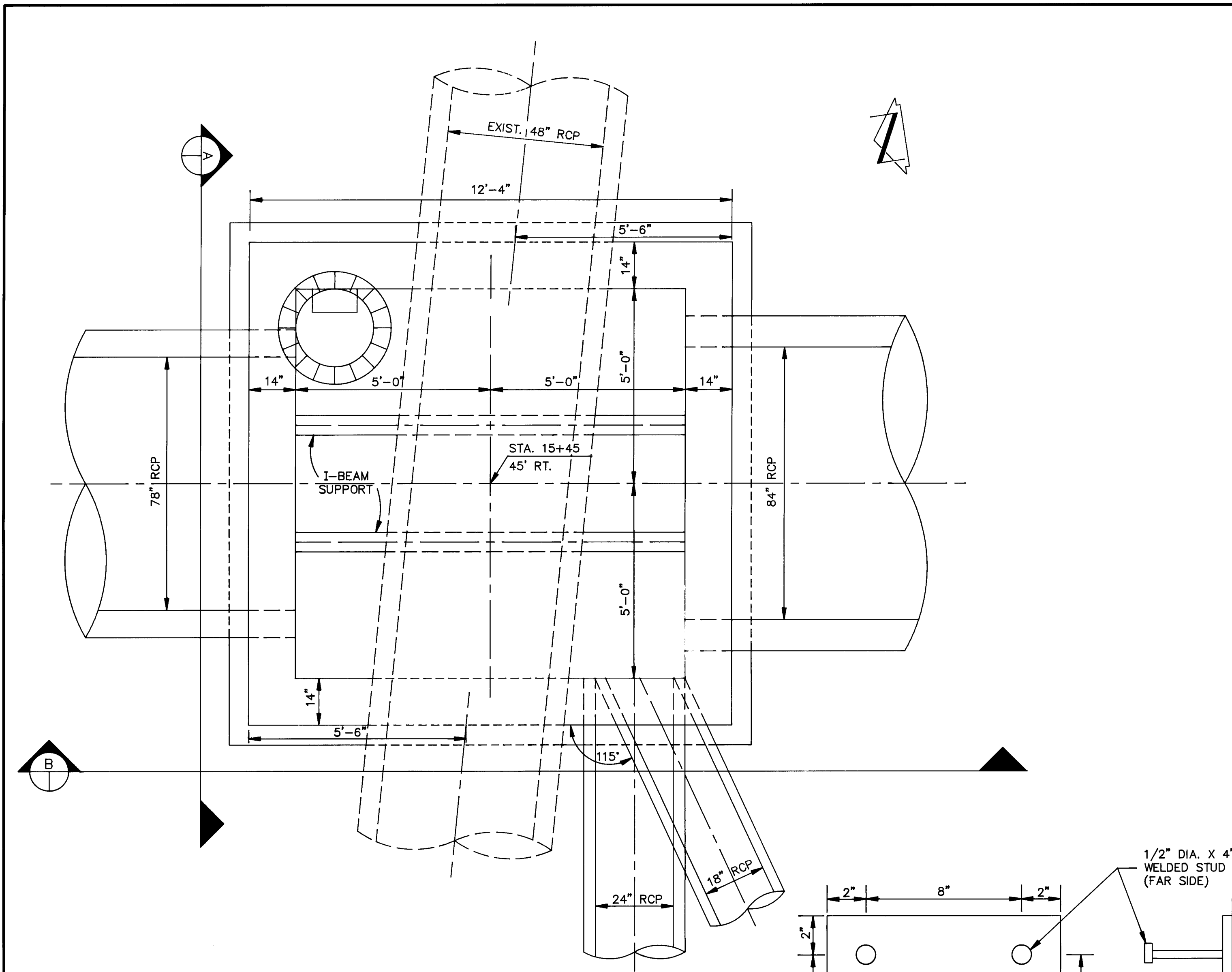
DRAWING NO.	4035(3) C.O.A. 3203	MAP NO. G-14	SHEET OF CO 1-7
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RECORD DRAWING

2/10/92

[illegible]





F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		CO 1-9	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	DATE	NO.	BY	DATE
STAMPED BY	DATE						
ACCEPTANCE BY	DATE						
FIELD VERIFICATION BY	DATE						
REVISIONS	DATE						
CORRECTED BY	DATE						
RECORDED BY	DATE						
NO.							

26 3203.908192

CHANGE ORDER NO. 1 4/91

SCANLON & ASSOCIATES INC.
CONSULTING ENGINEERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: JUNCTION BOX STA. 15+45
SECOND STREET / CANDELARIA ROAD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>Rogers</i>	5/5/91	WATER	<i>William</i>	5-2-91
TRANSPORTATION	<i>Rogers</i>	5/5/91	WASTE WATER	<i>Ali</i>	"
HYDROLOGY	<i>Thompson</i>	5/3/91			

DESIGNED BY DDB
DRAWN BY JGL
CHECKED BY RL

PROJECT M-4035(3)
NO. COA PROJ. NO.3203

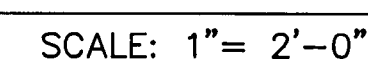
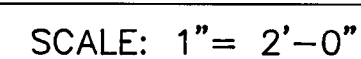
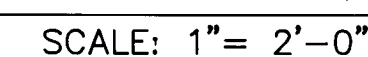
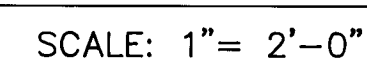
MAP NO. G-14

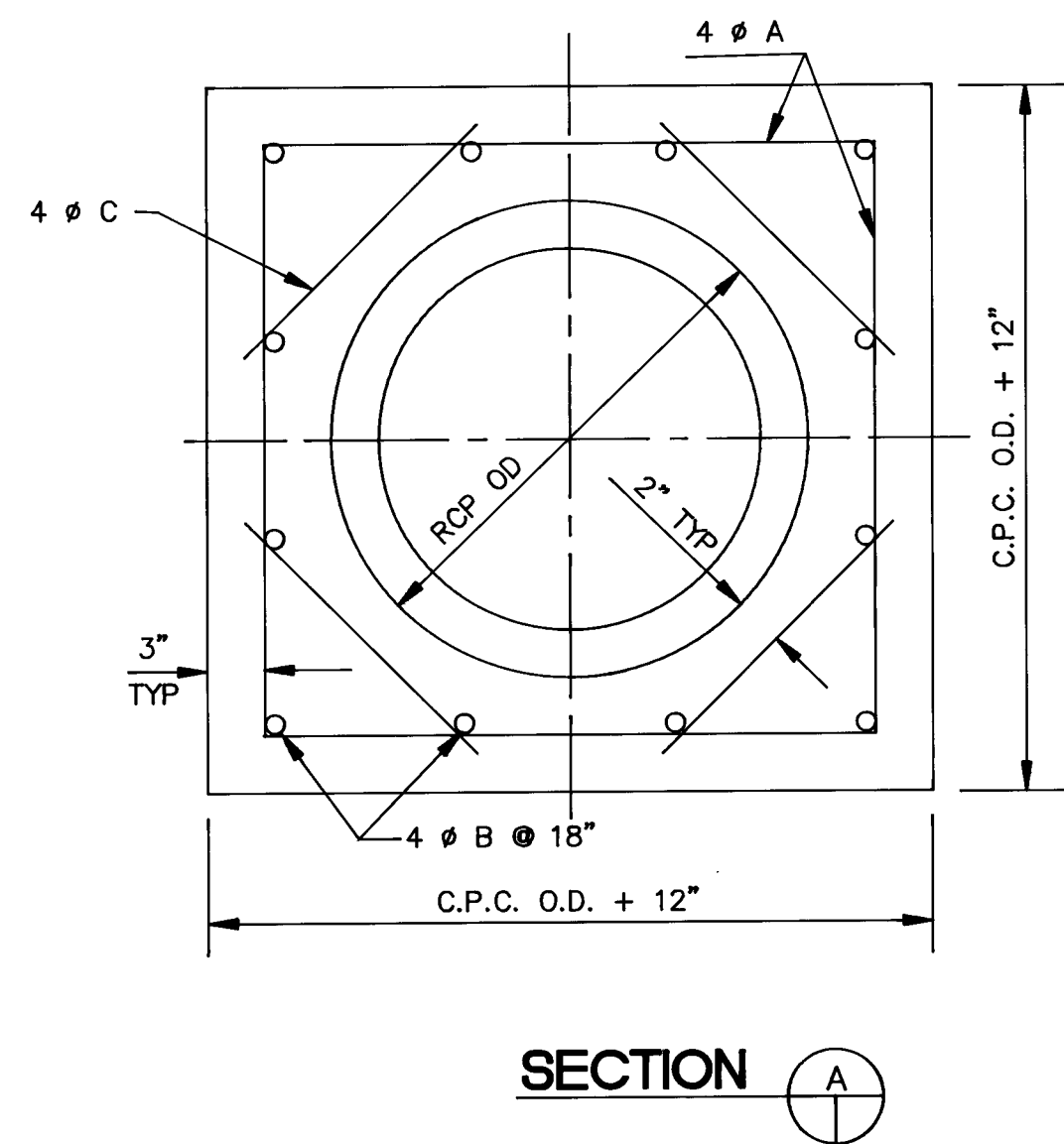
SHEET NO. CO 1-9

12/10/92

RECORD DRAWING

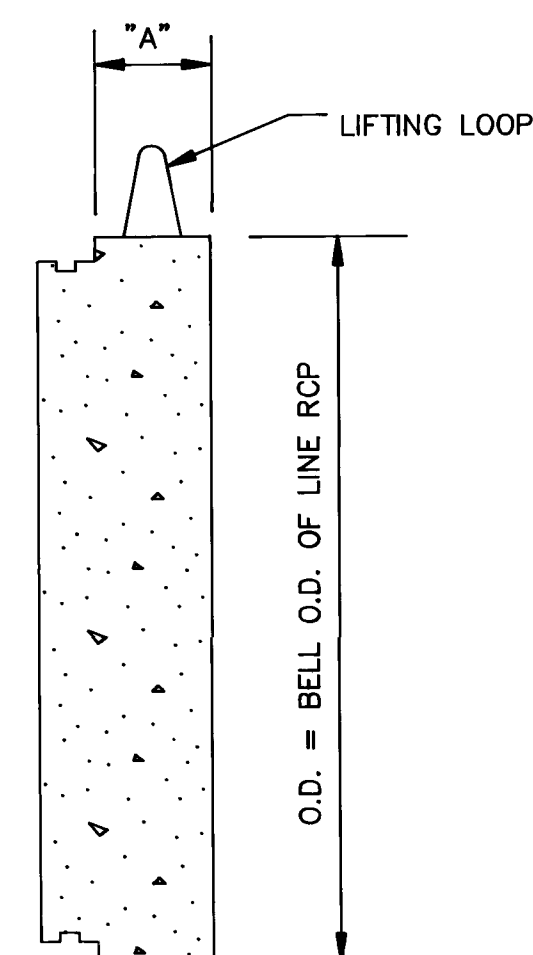
Drawn: JGL
Date: 12/10/92
Checked: RL
Reviewed: JGL
Approved: JGL





INSIDE DIA.	OUTSIDE DIA.	C.P.C. O.D. + 12"	4 Ø A (NO. & LENGTH)	4 Ø B (NO. & LENGTH)	4 Ø C (NO. & LENGTH)	REIN. BARS	CLASS "A" CONC.
18"	23"	2.9167'	16 @ 2'-6"	8 @ 2'-9"	— — — — —	41 LBS.	0.69 CU. YD.
24"	30"	3.5000'	16 @ 3'-3"	12 @ 2'-9"	— — — — —	57 LBS.	0.91 CU. YD.
30"	37"	4.0833'	16 @ 3'-9"	12 @ 2'-9"	— — — — —	62 LBS.	1.17 CU. YD.
36"	44"	4.6667'	16 @ 4'-3"	12 @ 2'-9"	— — — — —	67 LBS.	1.44 CU. YD.
48"	58"	5.6333'	16 @ 5'-6"	16 @ 2'-9"	16 @ 2'-9"	118 LBS.	2.06 CU. YD.
60"	65"	6.4167'	16 @ 6'-0"	20 @ 2'-9"	16 @ 3'-3"	144 LBS.	2.78 CU. YD.

COLLAR DETAILS FOR CONNECTING EXISTING CONC. PIPE CULV. W/NEW CONC. PIPE CULV.



<u>RCP I.D.</u>	<u>"A"</u>
24" & SMALLER	3"
30" - 42"	6"
48" - 72"	8"
78" - 96"	10"

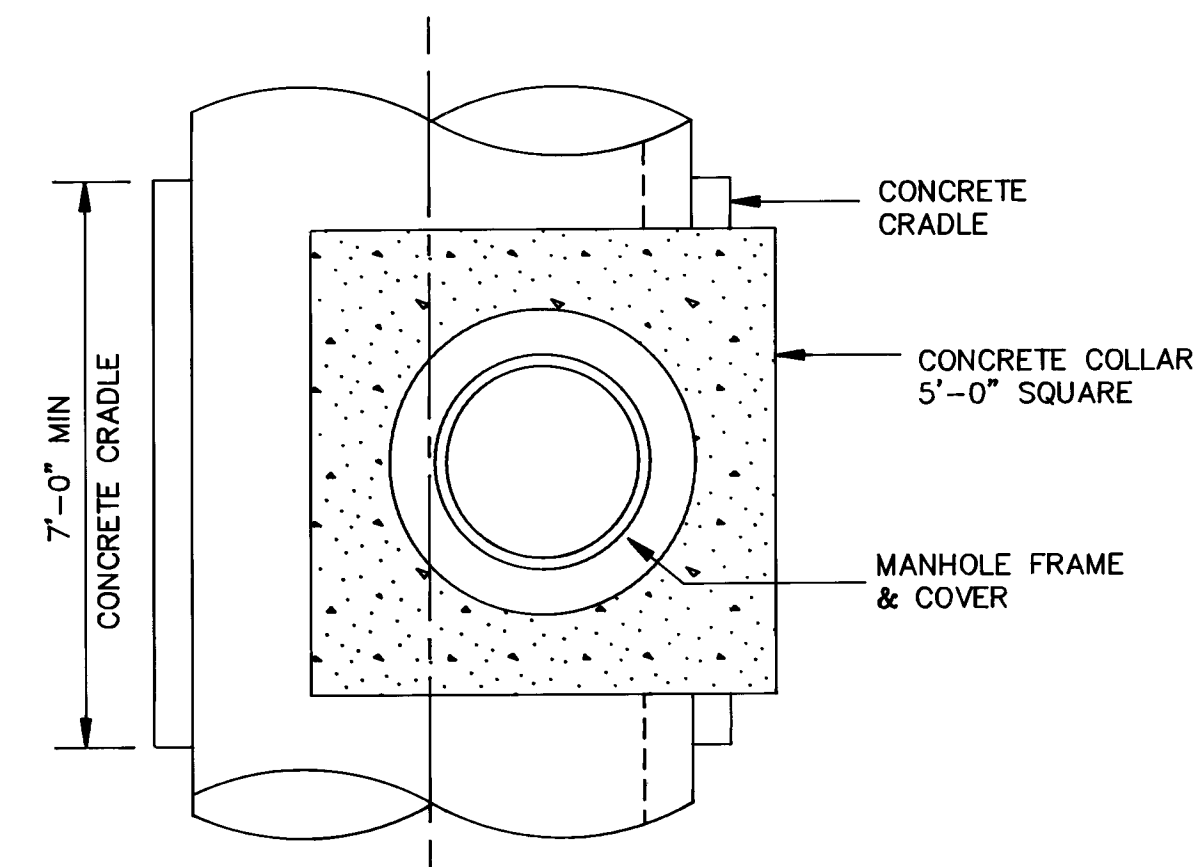
RCP END PLUG

GENERAL NOTES

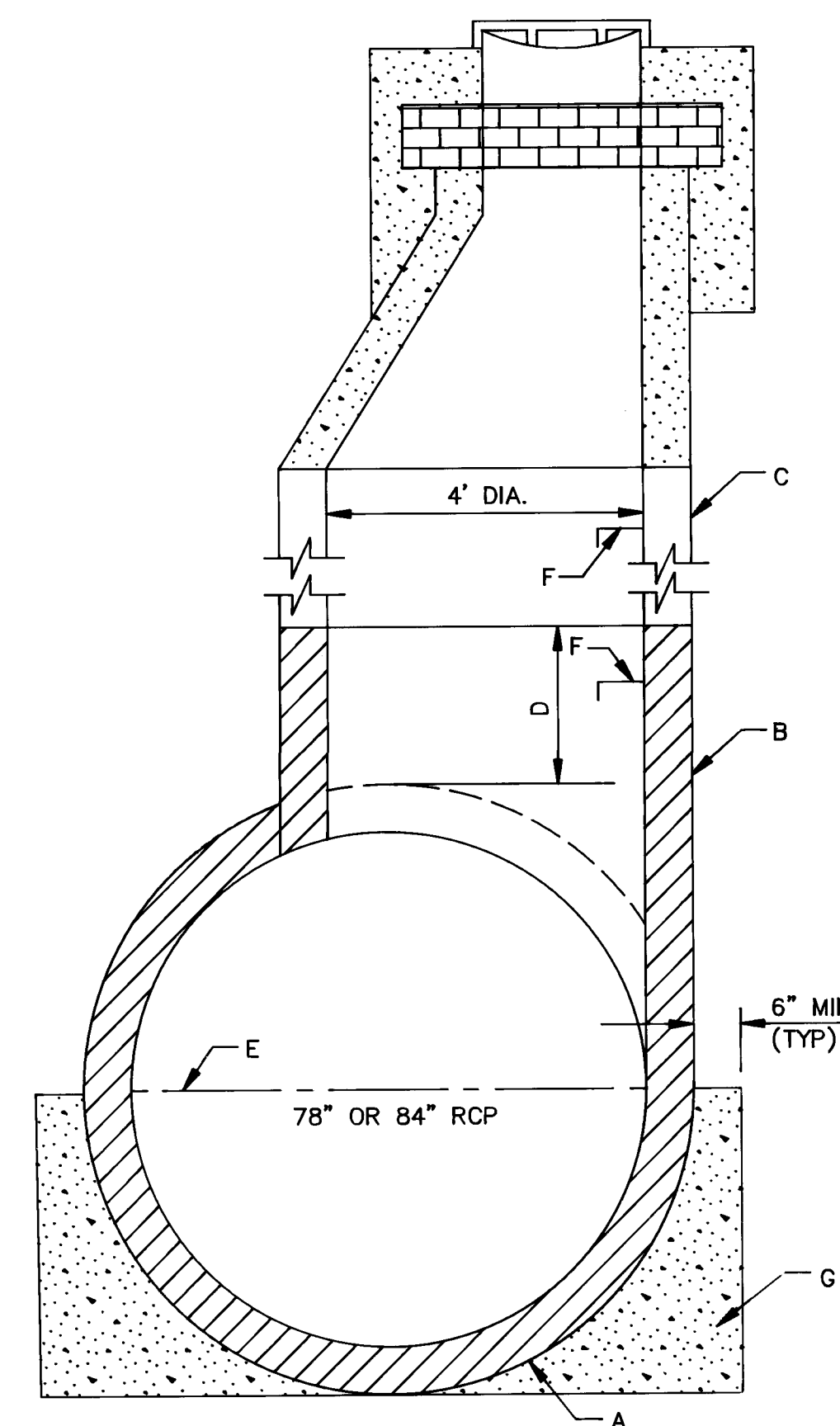
1. MANHOLE STEPS TO BE INSTALLED AS PER SPEC. SECTION 920.4.7
2. FIELD FABRICATION OF ECCENTRIC PIPE TEE WILL NOT BE ACCEPTED.
3. PAYMENT FOR MAIN STORM DRAIN TRUNK LINE TO BE MADE ALONG 1/2 OF PIPE CONTINUOUS THROUGH MANHOLE TEE.
4. SEPARATE PAYMENT WILL BE MADE FOR PREFABRICATION OF TEE BRANCH ONTO MAIN TRUNK LINE PIPE.
5. SEPARATE PAYMENT WILL BE MADE FOR CONSTRUCTION OF 4' DIAMETER TYPE E MANHOLE ABOVE PREFABRICATED SECTION OF TEE BRANCH.
6. PAYMENT FOR CONCRETE CRADLE AT MANHOLE PRECAST TEE SECTION TO BE MADE UNDER BID ITEMS CLASS "A" CONCRETE.

CONSTRUCTION NOTES

- A. CLASS IV REINFORCED CONCRETE STORM SEWER PIPE
- B. ECCENTRIC PRECAST VERTICAL PIPE TEE
- C. 4' DIA. TYPE E MANHOLE AS PER C.O.A. STD. DRAWING 2102 EXCLUDING BASE
- D. TOP OF VERTICAL PIPE MINIMUM 18" ABOVE
- E. SPRINGLINE
- F. MANHOLE STEP
- G. CLASS A CONCRETE CRADLE. CONSTRUCT CRADLE AT SECTION OF PIPE WITH ECCENTRIC MANHOLE TEE ONLY. CRADLE TO BE INSTALLED UNDER FULL LENGTH OF TEE SECTION. (7'-0" MIN.)



PLAN



SECTION
TYPICAL 4' DIA. MANHOLE ON
PRECAST ECCENTRIC TEE SECTION

26 3203.908392

F.H.W.A. Region No.	STATE	M-4035(3)	SHEET NO.	TOTAL SHEETS
6	NEW MEXICO		CO 1-11	

BUREAU DEPARTMENT GROUP		ENGINEER'S SEAL 		SURVEY INFORMATION FIELD NOTES NO. BY DATE		BENCH MARKS		AS BUILT INFORMATION CONTRACTOR WORKED BY INSPECTOR'S DATE INSPECTION BY DATE VERIFICATION BY DATE VERIFICATION BY DATE CONNECTED BY DATE MICRO-FILM INFORMATION RECORDED BY DATE NO.	
NO. DATE REMARKS NO. DATE BY		DESIGN DESIGNED BY <i>DOB</i> DATE <i>4-29-91</i> DRAWN BY <i>JGL</i> DATE <i>4-29-91</i> CHECKED BY <i>RZ</i> DATE <i>4-29-91</i>							
APPROVALS WATER WASTE WATER		ENGINEER <i>Handwritten signature</i> <i>Handwritten signature</i>		DATE <i>5-2-91</i> "					
SHEET OF		CO 1-11							

CHANGE ORDER NO. 1 4/91



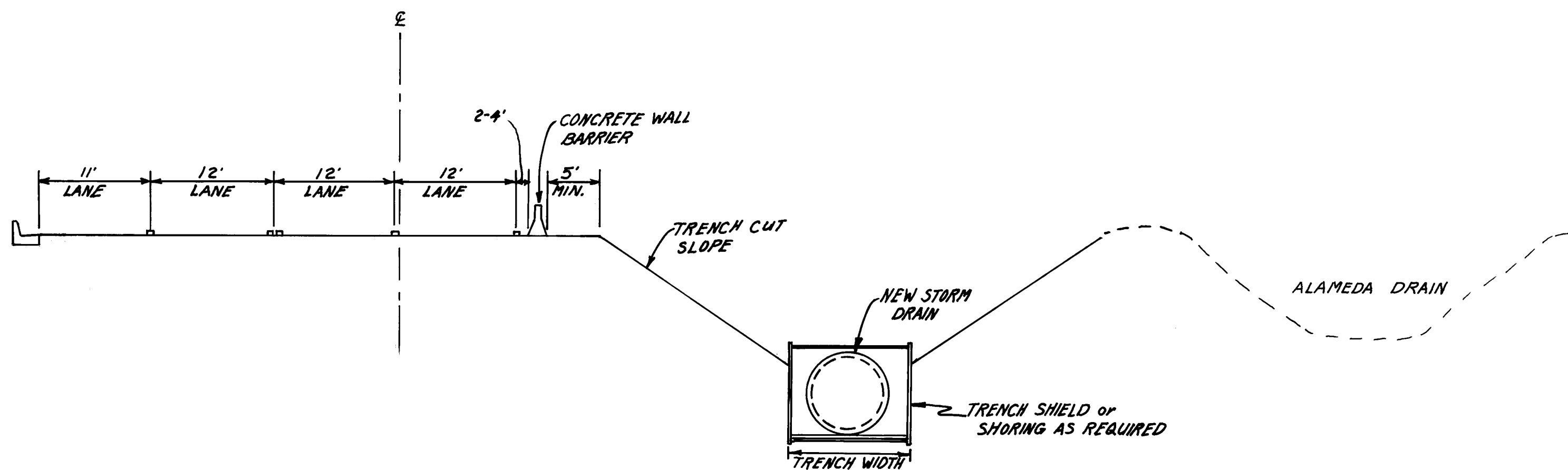
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: MISCELLANEOUS DETAILS
SECOND STREET / CANDELARIA ROAD

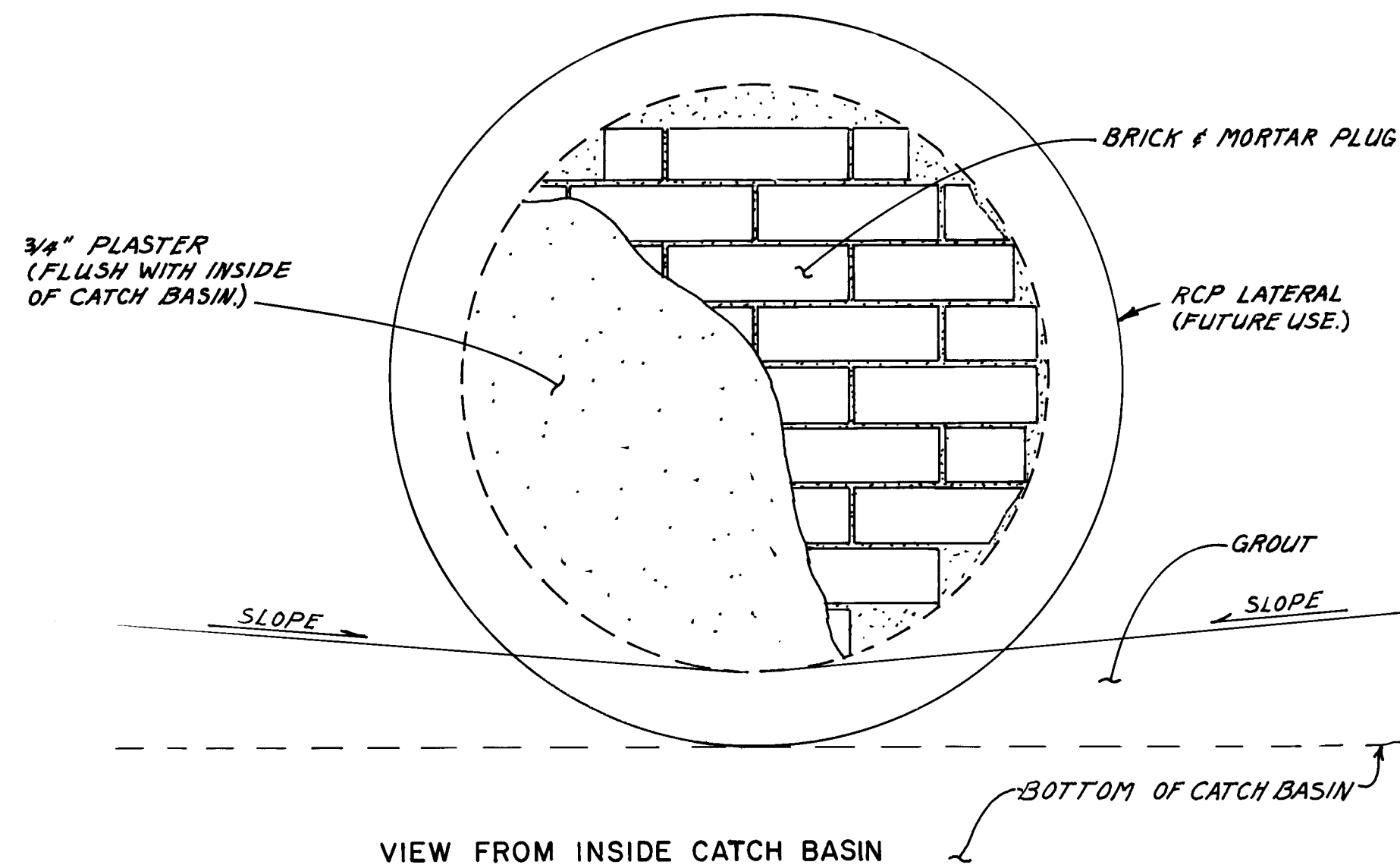
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Rog. [Signature]</i>	5/3/91	WATER	<i>ADD [Signature]</i>	5-3-91
TRANSPORTATION	<i>R. [Signature]</i>	5-01-91	WASTE WATER	<i>ADD</i>	"
HYDROLOGY	<i>[Signature]</i>	5/3/91			

PROJECT NO.	M-4035(3) COA PROJ No. 3203	MAP NO.	G-14	SHEET OF	CO 1-11
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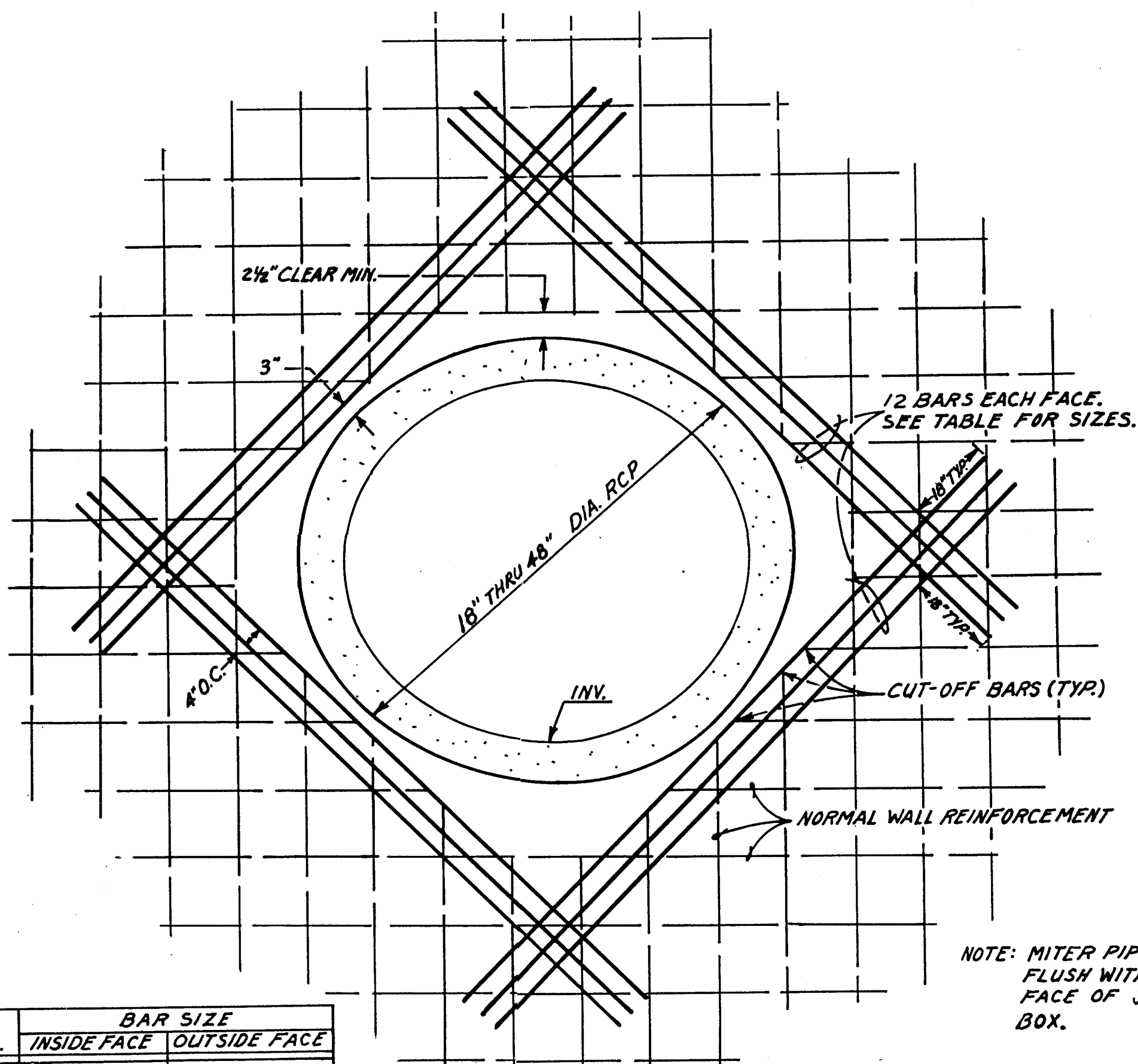
RECORD DRAWING



TYPICAL STORM DRAIN TRENCH BARRICADING
SCALE: 1" = 10'



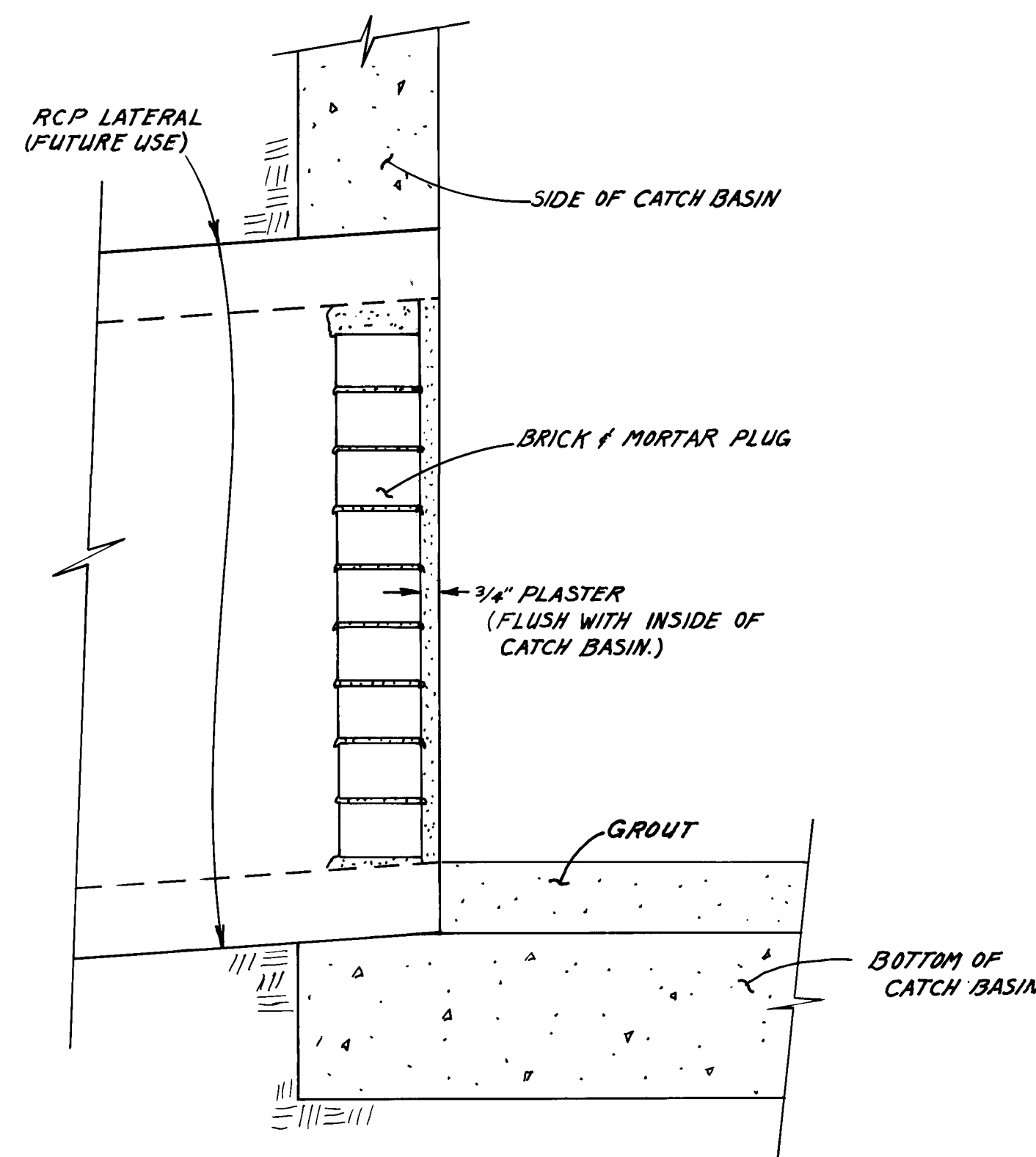
VIEW FROM INSIDE CATCH BASIN



PIPE DIA.	BAR SIZE	
	INSIDE FACE	OUTSIDE FACE
18" or 24"	#4	#5
30" or 36"	#5	#6
48"	#6	#7

JUNCTION BOX REINFORCING FOR RCP-WALL PENETRATION
SCALE: 1/2" = 1'-0"

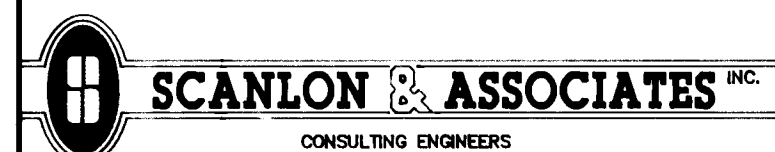
NOTE: MITER PIPE TO BE FLUSH WITH INSIDE FACE OF JUNCTION BOX.



TEMPORARY PLUG OF FUTURE LATERAL AT CATCH BASIN

26 3203 908492

CHANGE ORDER No. 1 4/91



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: MISCELLANEOUS DETAILS
SECOND STREET / CANDELARIA ROAD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Roger Dixon	5/3/91	WATER	Willson	5-3-91
TRANSPORTATION	John Doyle	5-01-91	WASTE WATER	Will	..
HYDROLOGY	Steve Doherty	5/3/91			

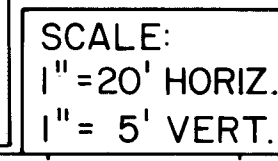
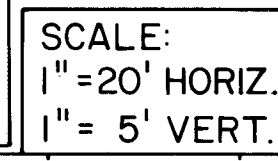
PROJECT M-4035(3)	MAP NO. G-14	SHEET OF
NO. COA PROJ.No. 3203		CO 1-12

RECORD DRAWING

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
STANDARD BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
FIELD ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
FIELD DRAWINGS	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CORRECTED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
NO.		NO.		NO.		NO.	

- CHANGE ORDER NO. 1**
STORM DRAIN INSTALLATION NOTES:
- All details shown herein refer to the installation of RCP-CLASS IV pipe. Class 100, SPIROLITE pipe will be considered as an acceptable alternate. Detailed shop drawing shall be submitted and approved prior to use of SPIROLITE pipe for trunk line and manholes.
 - If SPIROLITE pipe is approved, it shall be installed according to manufacturers recommendations and specifications.
 - A maximum of eight (8) vertical feet of earth surcharge will be allowed during trenching and backfilling operations for storage of earth material over newly installed storm drain pipe.
 - All trenching operations shall be in accordance with applicable OSHA regulations. It shall be the Contractor's responsibility to comply with these regulations with regard to allowable trench side slopes during pipe installation. The use of sheet piling, shoring and/or trench shielding if required, shall be included in the Contractors price for trenching and backfilling. No extra payment will be made therefor and no extra payment will be made for handling and/or disposing of trench materials.
 - In addition, trenching and backfilling of pipe shall be in accordance with Section 701, TRENCHING, EXCAVATION AND BACKFILL of the standard City of Albuquerque specifications.
 - A maximum of 100 linear feet of open trench shall be allowed at any given time. The open trench shall be protected by use of precast concrete wall barrier. Sand barrel vehicular impact attenuation units shall be installed at wall barrier ends and remain in place at all times during construction. A maximum of 300 linear feet of wall barrier shall be used at any one time for trench protection. Wall barrier and impact attenuators shall be repositioned as pipe installation progresses.
 - The installation of the storm drain trunk line in Second Street shall be performed during construction traffic control Phases II and III. Lateral extensions shall be completed during later phases as work space is provided.
 - A geotechnical investigation was performed as part of the Engineering design of these storm drain improvements. A copy of that report is available for review at the office of Scanlon & Associates located at 8008 Pennsylvania Circle, NE, Albuquerque, New Mexico, Ph 265-6941.

12/10/92



1. Contractor to verify exact location of existing waterline.
2. Special care to be taken during excavation for drop inlets at Sta. 10+85.03 of Sta. 12+67 to avoid damage to existing gas line. If conflict with existing gas line occurs, gas line to be rerouted by others. Contractor to coordinate his work with Gas Co. of N.M.

- A.) ITEMS ENCLOSED IN A BOX ARE
RELIED TO CHANGE ORDER No. 1
REGARDING STORM DRAIN
IMPROVEMENTS ADDED TO THIS
CONTRACT.
- B.) SEE SHEETS COI-54 (C.O.#1) FOR
PROFILE OF NEW STORM DRAIN
TRUNK LINE.
- C.) SEE SHEET COI-6 (C.O.#1) FOR
PROFILE OF STORM DRAIN
SERVING VERANDA ROAD.
- D.) SEE SHEET COI-8 (C.O.#1) FOR
DETAILS OF JUNCTION BOX AT
STA. 10+77.5, 45° RT.
- E.) ALL EXISTING RCP REMOVED DUE
TO TRENCHING FOR THE NEW
STORM DRAIN TRUNK LINE SHALL
BE REMOVED COMPLETELY TO
THE ALAMEDA DRAIN ON THE
WEST SIDE OF THE TRENCH
AND SHALL BE REPLACE WITH
NEW RCP OF LIKE SIZE, CLASS
III. CONNECTION TO EXISTING
RCP SHALL BE MADE BY MEANS
OF A CONCRETE COLLAR (SEE
C.O.#1 SHEET CO-11.)
- F.) ALL PUBLIC & PRIVATE UTILITIES
SHALL BE MAINTAINED IN SERVICE
AT ALL TIMES DURING CON-
STRUCTION.

CO 1-1 thru 3 TRUNK LINE PLAN

CO 1-4 CANDEL. S.D. STUB-OUT P&P

CO 1-5 TRUNK LINE PROFILE

CO 1-6 & 7 MISCELLANEOUS PROFILES

CO 1-8 JUNCTION BOX STA. 10+77.5

CO 1-9 JUNCTION BOX STA. 15+45

CO 1-10 STRUCTURAL DETAILS

CO 1-11 & 12 MISCELLANEOUS DETAILS

CO 1-13 & 14 SAND BARREL CRASH CUSHION
DETAILS.

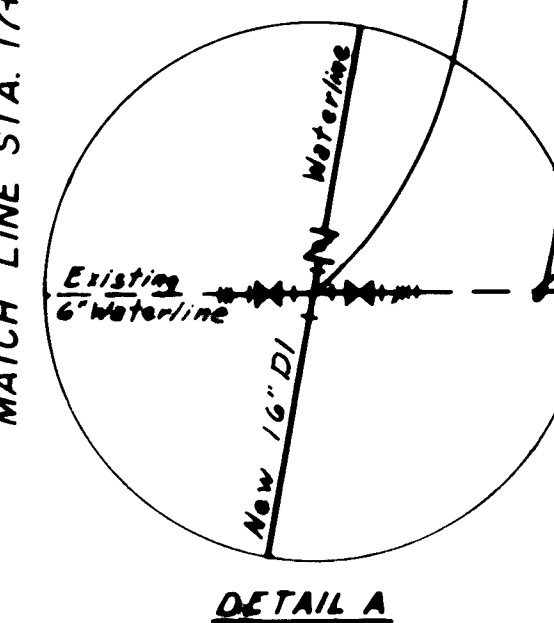
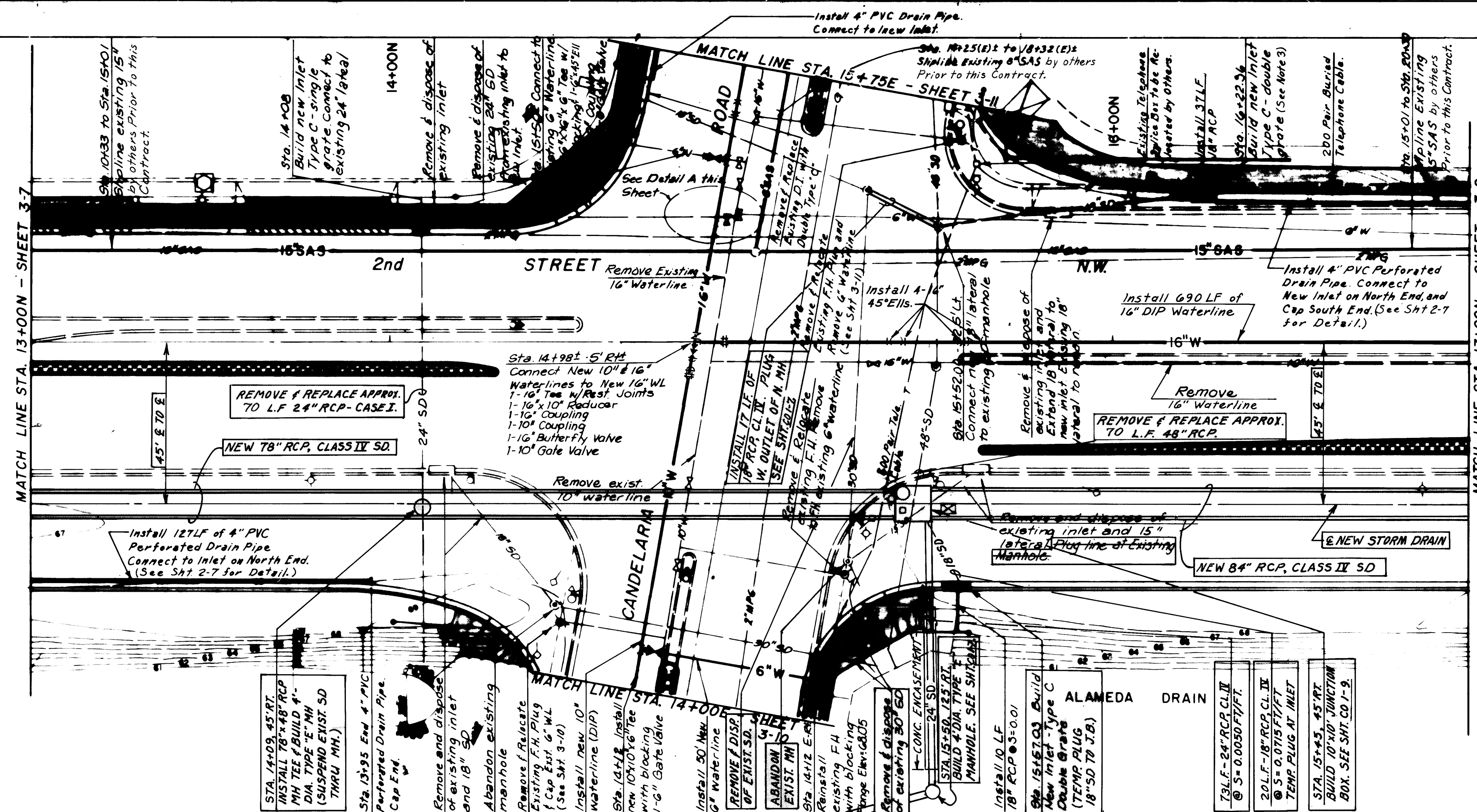
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DESIGN (TRANSPORTATION)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer	<i>Reginald</i>	5/3/91	Liquid Waste	<i>NLO</i>
A.C.E.-Design	"	"	Traffic	<i>R. Deane</i>
A.C.E.-Hydrology	<i>Stan Boland</i>	5/3/91	Water	<i>NLO</i>

PROJECT NO.	4035(3) C.G.A. 3203	DWG NO.	SHEET
			CO 1-1

[illegible]

CRAWLING



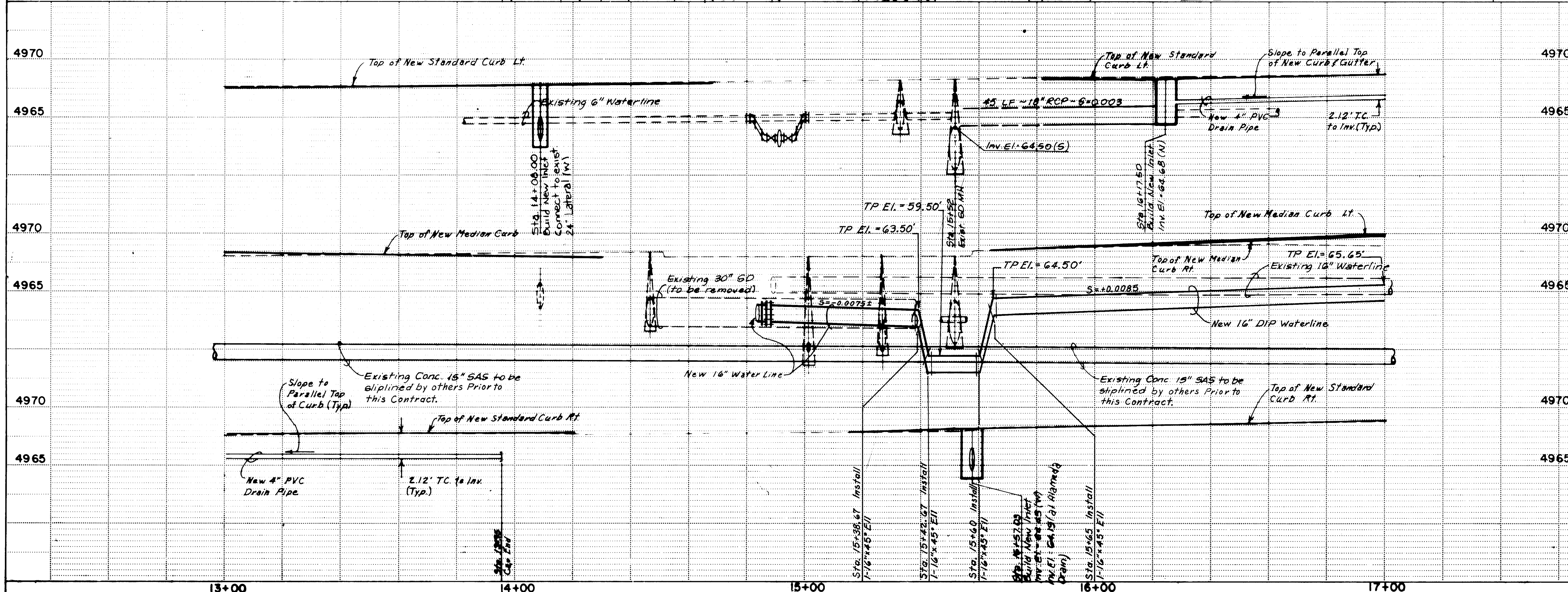
SCALE:
1" = 20' HORIZ.
1" = 5' VERT.

NOTES:

1. Connect existing 6" waterline to new 16" waterline.
1-16" x 6" Cross w/Rest Joints
2-6" Couplings
2-6" Gate Valves
1-16" Butterfly Valve
4-6" x 45" Ells
2. Contractor to verify exact location of existing waterline.
3. Special care to be taken by Contractor during excavation for Drain Inlet at Sta. 16+22.36 to avoid damage to existing direct bury telephone cable.
4. All new waterline fittings to be ductile iron with restrained joints, unless otherwise noted.

CHANGE ORDER No. 1 STORM DRAIN NOTES

- A) ITEMS ENCLOSED IN A BOX ARE RELATED TO CHANGE ORDER No. 1 REGARDING STORM DRAIN IMPROVEMENTS ADDED TO THIS CONTRACT.
- B) SEE SHEETS CO-1-566 (C.O.#1) FOR PROFILE OF NEW STORM DRAIN TRUNK LINE.
- C) SEE SHEETS CO-1-7 (C.O.#1) FOR PROFILE OF STORM DRAIN SERVING CANELARIA ROAD.
- D) SEE SHEET CO-1-9 (C.O.#1) FOR DETAILS OF JUNCTION BOX AT STA. 15+45, 45' RT.
- E) ALL EXISTING RCP REMOVED DUE TO TRENCHING FOR THE NEW STORM DRAIN TRUNK LINE SHALL BE REMOVED COMPLETELY TO THE ALAMEDA DRAIN ON THE WEST SIDE OF THE TRENCH AND SHALL BE REPLACED WITH NEW RCP OF LIKE SIZE, CLASS II. CONNECTION TO EXISTING RCP SHALL BE MADE BY MEANS OF A CONCRETE COLLAR (SEE C.O.#1 SHEET CO-1-11.)
- F) ALL PUBLIC & PRIVATE UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES DURING CONSTRUCTION.



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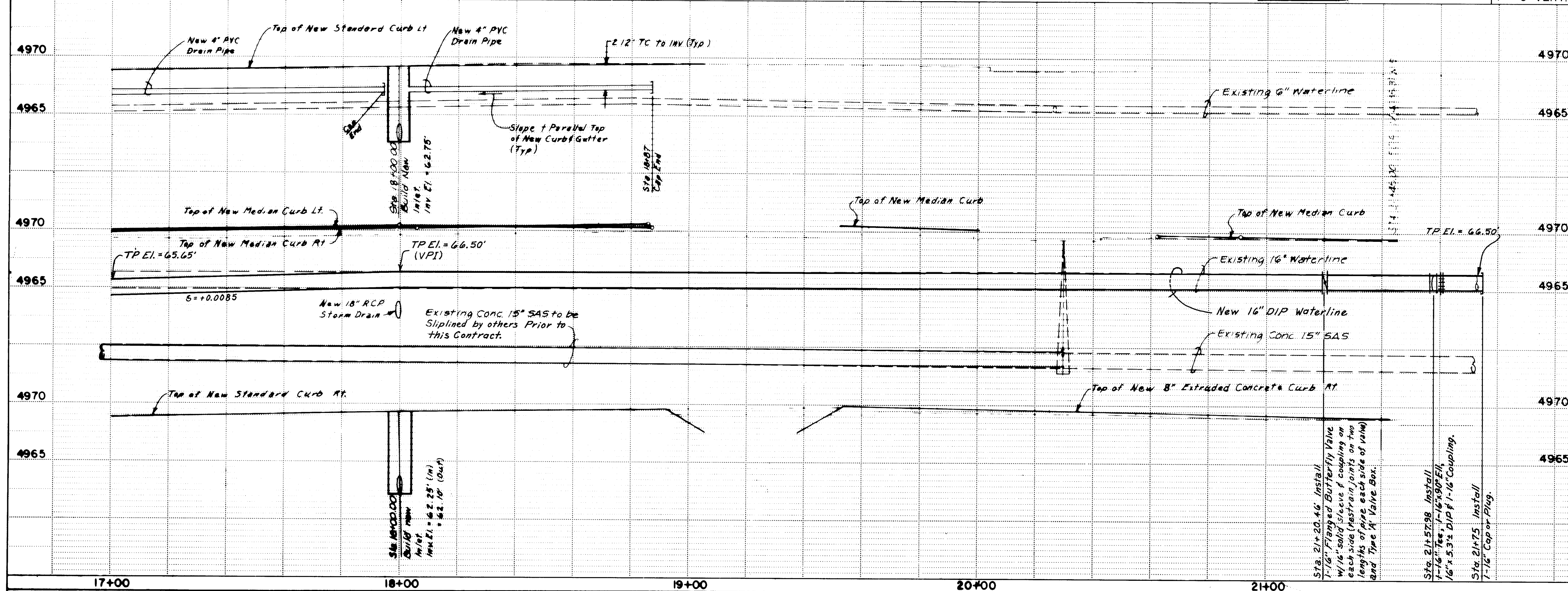
CHANGE ORDER No. 1 4/91 ADDENDUM NO. 1 2/1/91

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DESIGN (TRANSPORTATION)
TITLE: 2nd ST./CANELARIA INTERSECTION
2nd ST. NORTH STORM DRAIN
TRUNK LINE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer	Ray J. [Signature]	5/3/91	Liquid Waste	[Signature]
A.C.E.-Design	[Signature]	[Date]	Traffic	[Signature]
A.C.E.-Hydrology	Steve [Signature]	5/3/91	Water	[Signature]

PROJECT NO. 4035(3)
C.O.A. 3203
MAP NO. G-14
SHEET CO-1-2

RECORD DRAWINGS



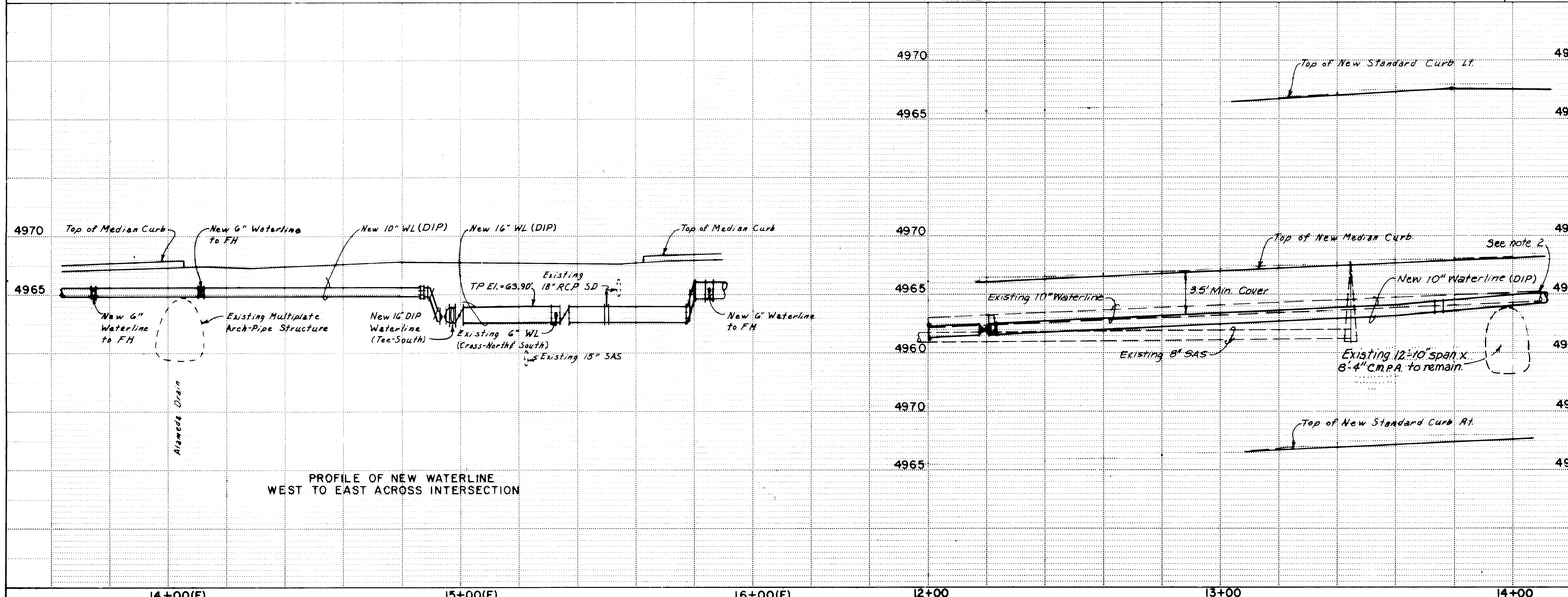
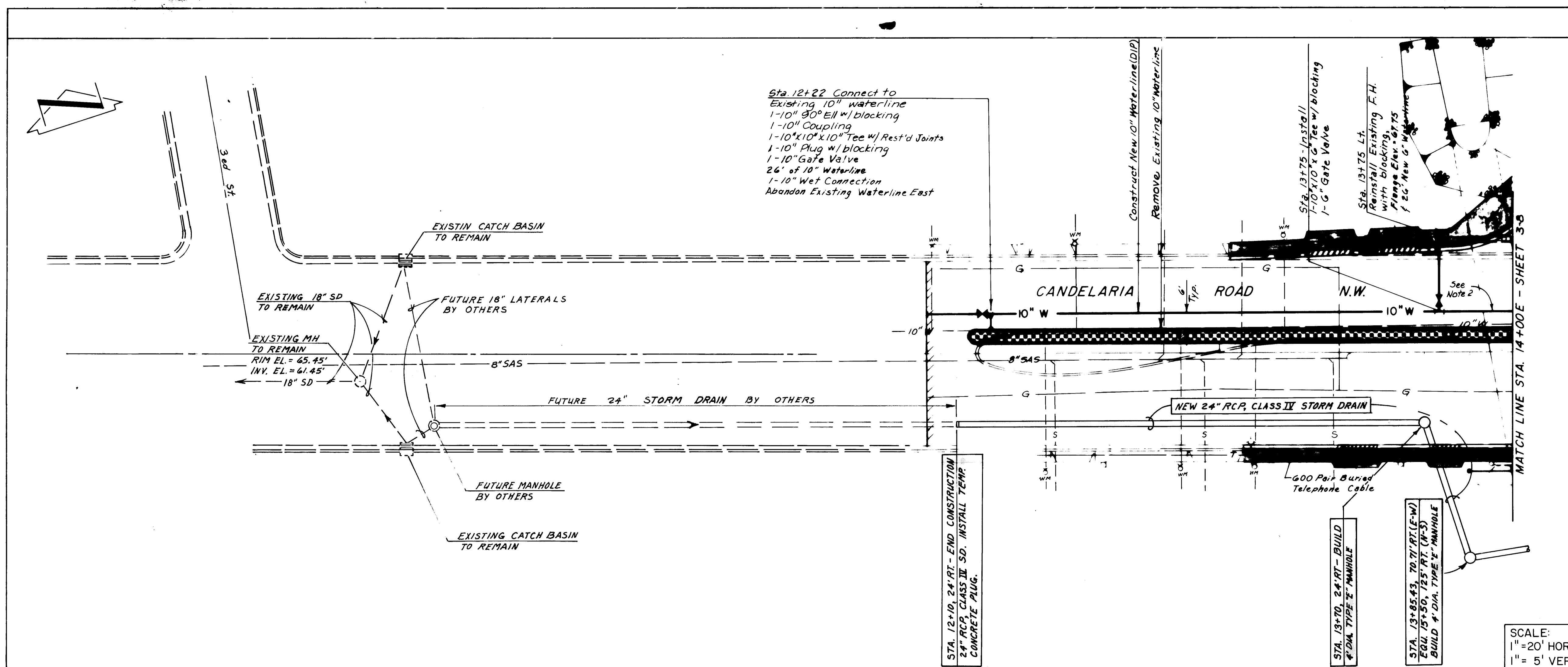
- A) ITEMS ENCLOSED IN A BOX ARE RELATED TO CHANGE ORDER NO. 1 REGARDING STORM DRAIN IMPROVEMENTS ADDED TO THIS CONTRACT.
- B) SEE SHEETS CO-1-566 (C.O.#1) FOR PROFILE OF NEW STORM DRAIN TRUNK LINE.
- C) SEE SHEET CO-1-567 (C.O.#1) FOR PROFILE OF STORM DRAIN SUB-OUT FOR FUTURE SERVING OF SHROPSHIRE PLACE.
- D) ALL EXISTING RCP REMOVED DUE TO TRENCHING FOR THE NEW STORM DRAIN TRUNK LINE SHALL BE REMOVED COMPLETELY TO THE ALAMEDA DRAIN ON THE WEST SIDE OF THE TRENCH AND SHALL BE REPLACED WITH NEW RCP OF LINE SIZE, CLASS IX. CONNECTION TO EXISTING RCP SHALL BE MADE BY MEANS OF A CONCRETE COLLAR (SEE C.O.#1 SHEET CO-1-566).
- E) ALL PUBLIC & PRIVATE UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
- F) APPROXIMATE LOCATION OF 500 CABLE DISTRIBUTION LINE: THIS CABLE IS TO BE LOWERED DURING CONSTRUCTION BY JONES INTERCABLE CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF JONES INTERCABLE IN THIS AREA. CONTACT PERSON IS YEVETTE SUAZO, PH. NO. 761-6200.

[illegible]

CITY OF ALBUQUERQUE	
PUBLIC WORKS DEPARTMENT	
ENGINEERING DESIGN (TRANSPORTATION)	
TITLE:	2nd/CANDELARIA INTERSECTION 2nd ST. NORTH STORM DRAIN TRUNK LINE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>Rog. Silva</i>	5/3/91	Liquid Waste	<i>A. C. Silva</i>	5-7-91
A.C.E.-Design	<i>u</i>	<i>u</i>	Traffic	<i>R. B. Silva</i>	5-01-91
A.C.E.-Hydrology	<i>Steve Bobing</i>	5/3/91	Water	<i>A. C. Silva</i>	5-7-91

PROJECT NO.	4035(3) C.O.A. 3203	MAP NO. G-14	SHEET / OF CO 1-3
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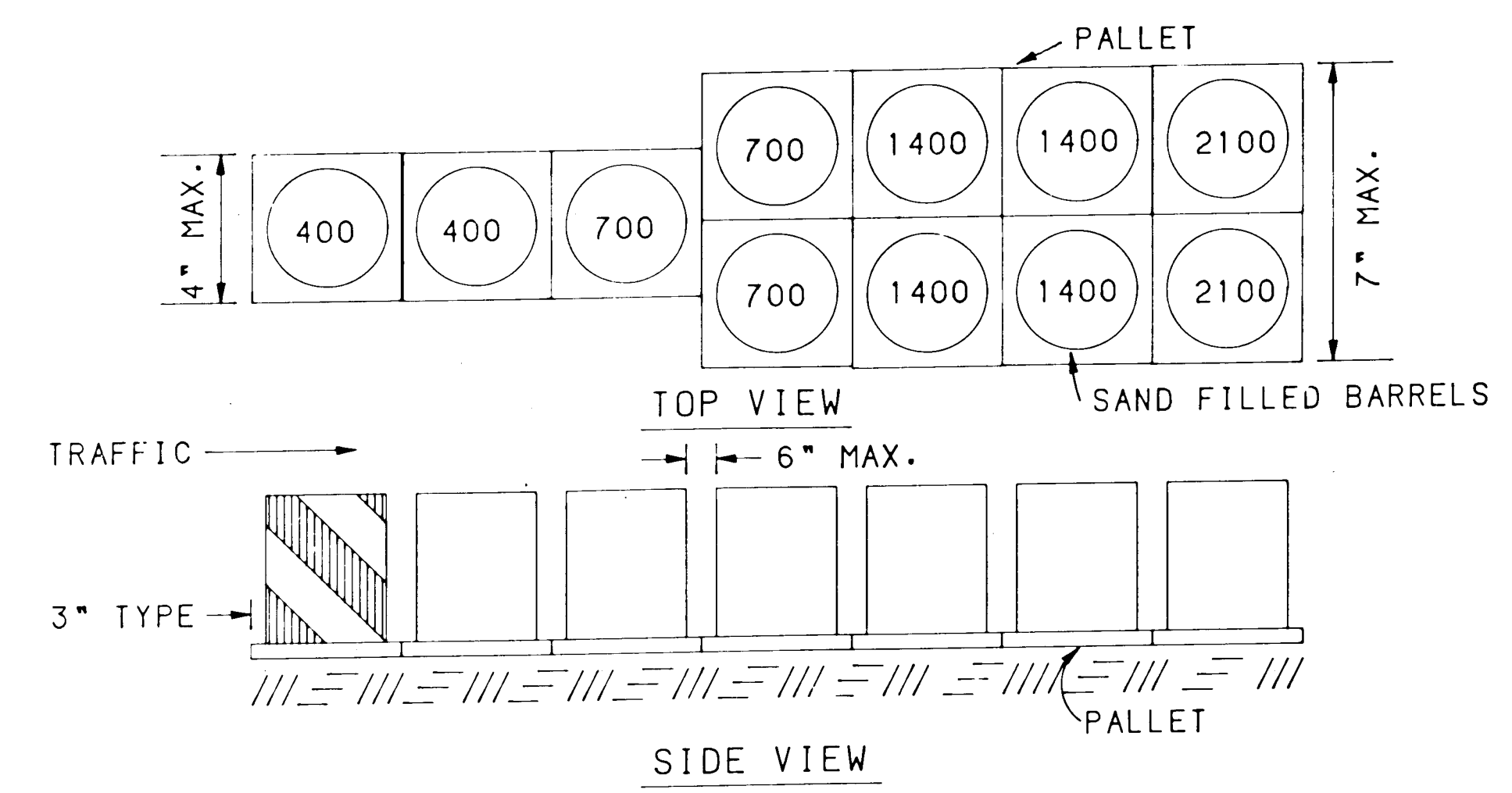


PROJECT NO. 4035(3) MAP NO. G-14 SHEET CO 1-4	
NOTES: 1. Contractor to verify exact location of existing waterline. 2. Contractor to verify location of existing top of Multiplate Arch Structure to confirm coverage for 10" waterline. A minimum of 3'-0" cover required. New 10" waterline to be constructed over top of existing structure. Contractor to verify cover available and notify Project Manager if less than 3'. 3. All new waterline fittings to be ductile iron with restrained joints, unless otherwise noted.	
CHANGE ORDER No. 1 STORM DRAIN NOTES A) ALL PUBLIC & PRIVATE UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES DURING CONSTRUCTION. B) SEE SHEET CO 1-7 FOR PROFILE OF 24" STORM DRAIN IN CANDELARIA ROAD.	
ENGINEER'S SEAL [Signature: R. J. ...] 1/24/91	
REVISIONS NO. DATE BY 1 2/5/90 2 2/15/90 3 2/15/90 4 2/15/90 5 2/15/90 6 2/15/90 7 2/15/90 8 2/15/90 9 2/15/90 10 2/15/90	
DESIGNED BY R.L. DRAWN BY GWC CHECKED BY RL	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DESIGN (TRANSPORTATION) TITLE: 2nd/CANDELARIA INTERSECTION 2nd ST. NORTH STORM DRAIN CANDELARIA STORM DRAIN STUB-OUT	
APPROVALS City Engineer [Signature] A.C.E. - Design [Signature] A.C.E. - Hydrology [Signature]	DATE 5/5/91 5/5/91 5/5/91
APPROVALS Liquid Waste [Signature] Traffic [Signature] Water [Signature]	DATE 5/5/91 5/5/91 5/5/91

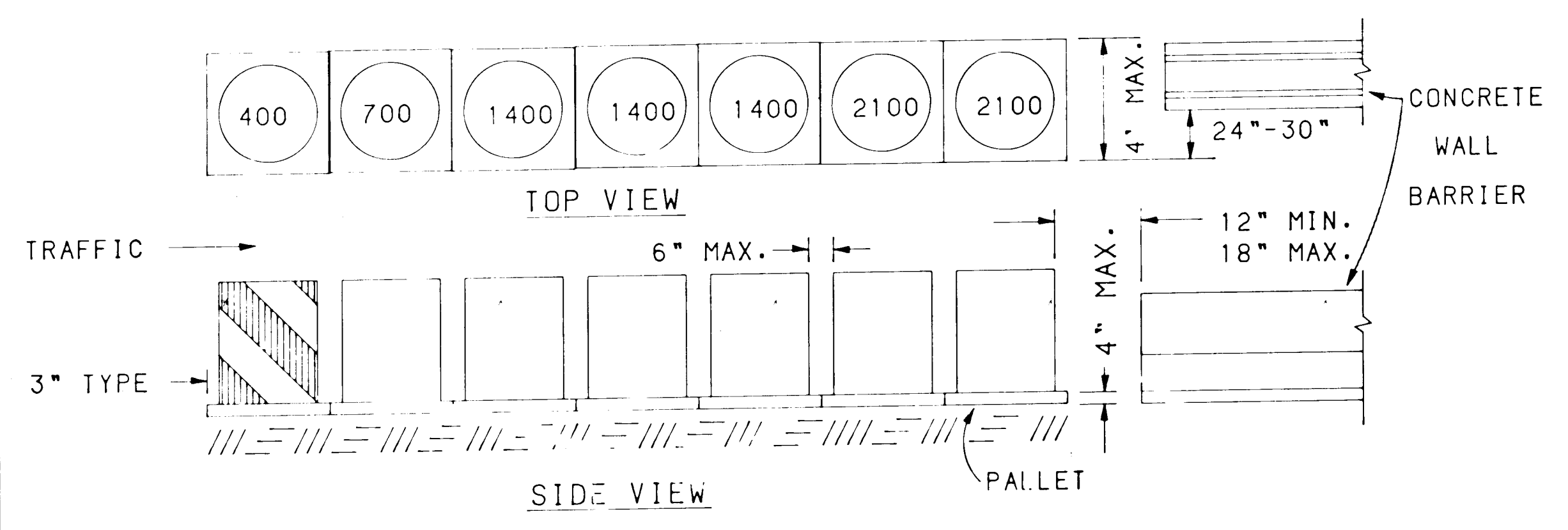
RECORD DRAWING

NOTES:

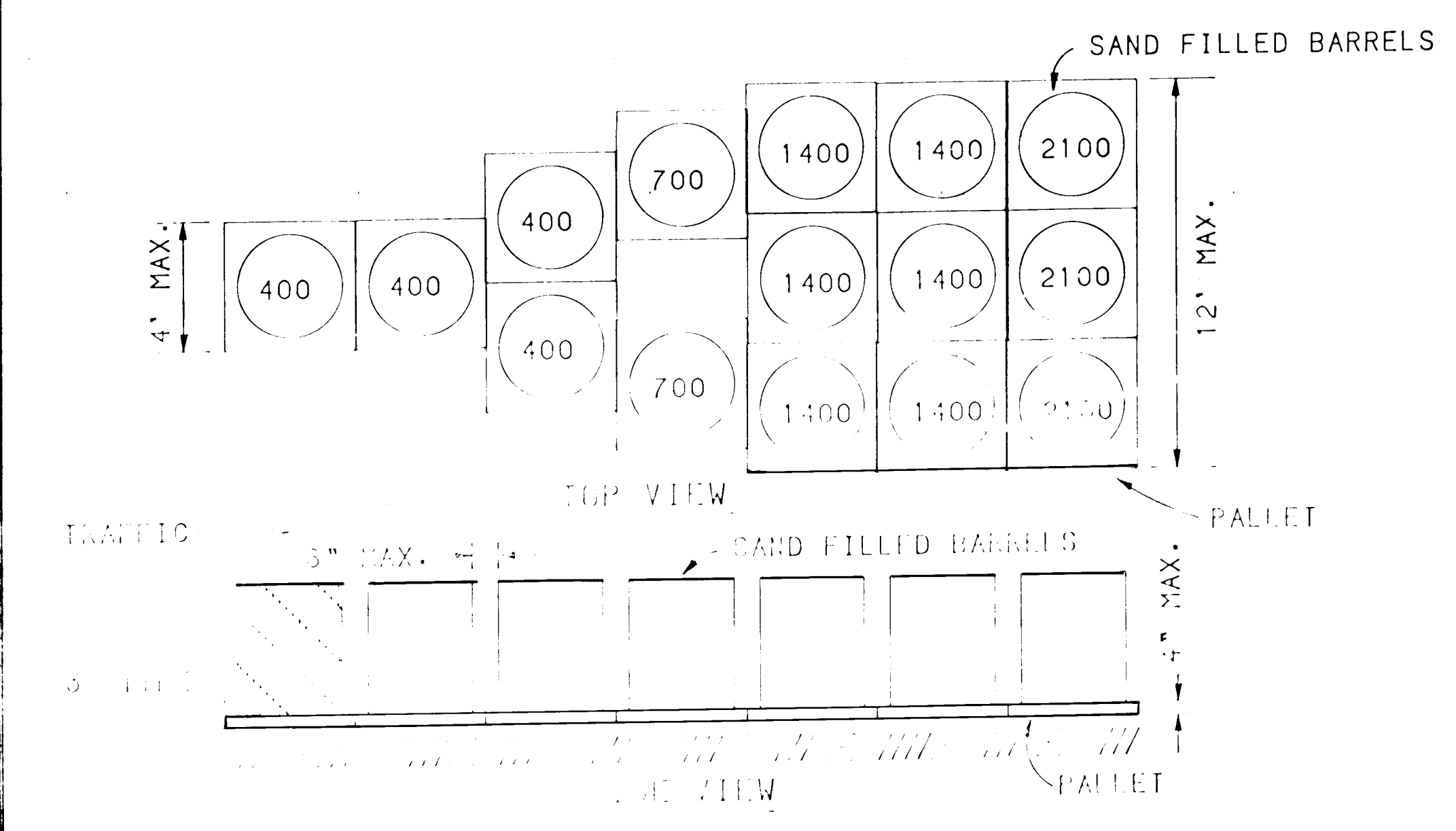
1. REFLECTIVE SHEETING FOR INITIAL SAND BARRELS SHALL COMPLY WITH SECTION 701.026 OF THE NEW MEXICO HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. PALLETS MAY BE OF WOOD, STEEL, OR COMPOSITE CONSTRUCTION NOT EXCEEDING 4" IN HEIGHT.
3. LATERAL DIMENSIONS OF PALLETS SHALL PERMIT SPACING OF SAND BARRELS AS SHOWN.
4. NO MORE THAN TWO (2) SAND BARRELS SHALL BE PLACED ON EACH PALLET.
5. PALLETS SHALL HAVE STOPS OR RESTRAINERS TO PREVENT LATERAL SHIFTING OF INDIVIDUAL SAND BARRELS.
6. SHOP DRAWINGS OF PALLETS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION FOR APPROVAL.
7. SAND BARREL CRASH CUSHION IS TO BE ANGLED AT 5° TOWARD TRAFFIC.



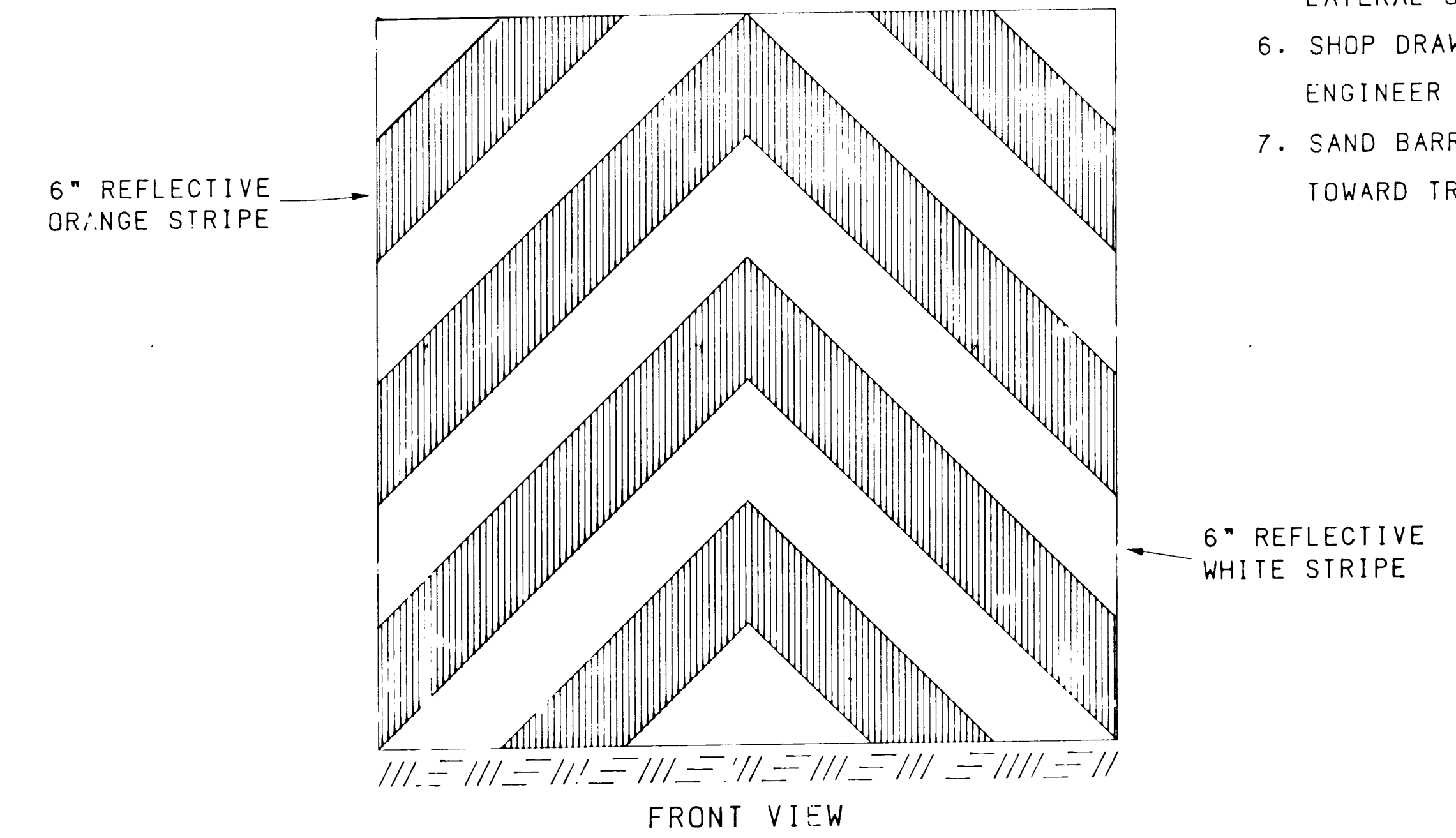
TYPICAL PALLET DETAIL-PYRAMID ARRAY



TYPICAL PALLET DETAIL-LINE ARRAY
(USE FOR THIS PROJECT)



TYPICAL PALLET DETAIL-MODIFIED PYRAMID ARRAY



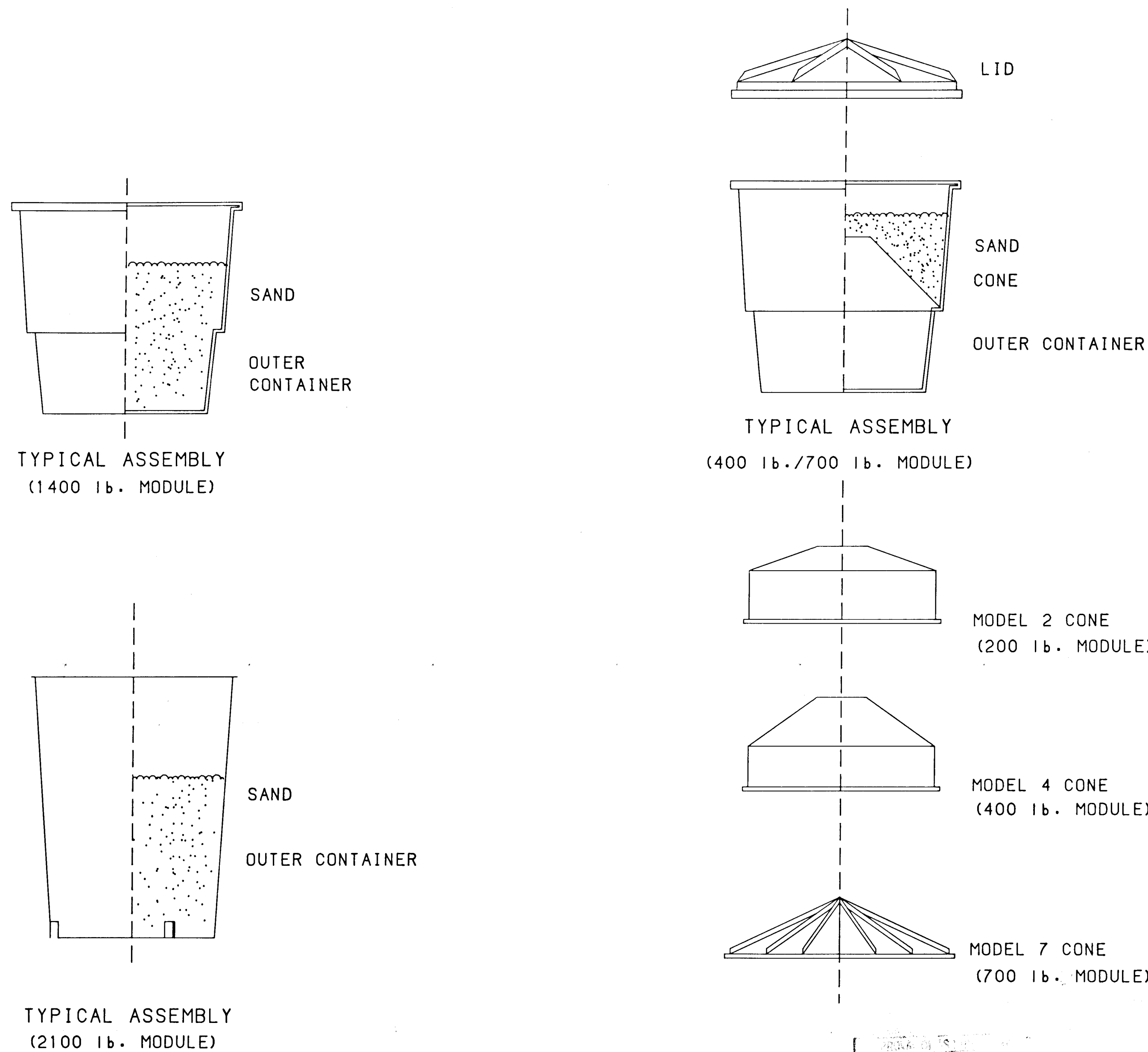
TYPICAL DELINEATION FOR INITIAL SAND BARREL
IN ALL ARRAYS

26 3203.908592

CHANGE ORDER No. 1		4/91
3		
2		
1		
REV.	DESCRIPTION	DATE BY
	REVISIONS (OR CHANGE NOTED)	
NEW MEXICO		
STATE HIGHWAY DEPARTMENT		
DISTRICT ENGINEER		
PROJECT ENGINEER		
CHECKED BY		
DATE		
SHEET NO. 13 OF 13		

PROJECT M 4035(3)
C.O.A. 3203

12/10/92
RECORD DRAWING



- NOTES:
- ALL ASSEMBLY, TRANSPORTATION TO SITE, ERECTION OF THE INDIVIDUAL MODULES AND THE CRASH CUSHION AS A WHOLE SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 - THE COLOR OF THE MODULES IN AN INDIVIDUAL CRASH CUSHION SHALL BE GREY OR YELLOW UNLESS OTHERWISE INDICATED.
 - SAND SHALL BE CLEAN, DRY GRANULAR SAND.

WEIGHT OF SAND (POUNDS)	HEIGHT OF CONE (INCHES)		MODULE DIAMETER (INCHES)	MODULE HEIGHT (INCHES)
200	12.6"		35.7" TOP 27.3" BOTT. M	36.2"
400	18"		"	"
700	8.0"		"	"
1400	----		"	"
2100	----		35.7" TOP 30.25" BOTT. M	45.50"

CHANGE ORDER No. 1

4/91

3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			

NEW MEXICO

STATE HIGHWAY DEPARTMENT

TRAFFIC DESIGN SECTION

SAND BARREL CRASH CUSHION

MODULE COMPONENTS

PROJECT NUMBER

DATE 1987

SHEET 001-14 OF

PROJECT M-4035(3)

C.O.A. 3203

12/10/92